

GenCore version 5.1.6  
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## CM protein - protein search, using sw model

Run on: December 3, 2003, 08:45:12 ; Search time 21 Seconds

(without alignments)  
461.390 Million cell updates/sec

Title: US-09-903-190-97

Perfect score: 1261  
Sequence: 1 MQDDDGITTLNKRKRPALV.....NKHVNGERKAGMKVQDLP 229

## Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

## Post-processing:

Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1261	100.0	229	4	US-09-247-155-97
2	1253	99.4	229	4	US-09-996-243-424
3	352.5	28.0	280	4	US-09-996-243-319
4	350.5	27.8	284	2	US-09-055-095-1
5	288	22.8	244	3	US-08-772-440-2
6	280.5	22.2	201	2	US-08-688-342-1
7	280.5	22.2	201	2	US-09-113-768-1
8	264	20.9	272	1	US-08-690-095-1
9	264	20.9	272	3	US-09-113-789-1
10	263.5	20.9	248	4	US-09-482-273-126
11	255.5	20.3	199	3	US-08-772-440-13
12	249.5	19.8	273	2	US-09-055-095-3
13	249.5	19.8	273	2	US-08-809-494A-6
14	249.5	19.8	273	2	US-08-352-302-6
15	243.5	19.3	273	2	US-08-809-494A-4
16	243.5	19.3	273	3	US-09-352-302-4
17	242.5	19.2	270	2	US-09-055-095-4
18	242.5	19.2	270	2	US-08-809-494A-2
19	242.5	19.2	270	3	US-09-352-302-2
20	238.5	18.9	176	3	US-08-772-440-8
21	238.5	18.9	180	3	US-08-772-440-31
22	221.5	17.6	126	3	US-08-772-440-10
23	211.5	16.8	216	3	US-08-543-246B-9
24	211.5	16.8	216	3	US-08-543-246B-24
25	208	16.5	134	3	US-08-543-246B-20
26	195.5	15.5	179	1	US-08-690-095-9
27	195.5	15.5	179	2	US-08-650-578-2

restricted out of parent  
application

28	195.5	15.5	179	2	US-08-688-342-3	Sequence 3, Appli
29	195.5	15.5	179	2	US-09-113-788-3	Sequence 3, Appli
30	195.5	15.5	179	3	US-09-113-789-9	Sequence 9, Appli
31	191.5	15.2	273	3	US-09-113-470-10	Sequence 10, Appli
32	191.5	15.2	292	2	US-08-688-342-4	Sequence 4, Appli
33	191.5	15.2	292	2	US-08-113-788-4	Sequence 4, Appli
34	190	15.1	316	3	US-08-113-470-10	Sequence 4, Appli
35	187.5	14.9	129	3	US-08-722-126A-10	Sequence 10, Appli
36	187.5	14.9	129	5	PCT-US95-04258-10	Sequence 10, Appli
37	175.5	13.9	188	3	US-08-722-126A-5	Sequence 5, Appli
38	175.5	13.9	188	5	PCT-US95-04258-5	Sequence 5, Appli
39	174	13.8	233	1	US-08-690-095-6	Sequence 6, Appli
40	174	13.8	233	3	US-09-113-789-8	Sequence 8, Appli
41	174	13.8	233	3	US-08-543-246B-2	Sequence 2, Appli
42	174	13.8	233	3	US-08-543-246B-21	Sequence 21, Appli
43	167	13.2	231	1	US-08-690-095-6	Sequence 6, Appli
44	167	13.2	231	3	US-09-113-789-6	Sequence 6, Appli
45	167	13.2	231	3	US-08-543-246B-6	Sequence 6, Appli
46	167	13.2	231	3	US-08-543-246B-23	Sequence 23, Appli
47	164.5	13.0	404	4	US-09-517-605-2	Sequence 2, Appli
48	164	13.0	135	3	US-08-543-246B-17	Sequence 17, Appli
49	163	12.9	135	3	US-08-543-246B-19	Sequence 19, Appli
50	158	12.5	120	3	US-08-543-246B-18	Sequence 18, Appli
51	158	12.5	215	1	US-08-690-095-7	Sequence 7, Appli
52	158	12.5	215	3	US-09-113-789-7	Sequence 7, Appli
53	158	12.5	215	3	US-08-543-246B-16	Sequence 16, Appli
54	158	12.5	215	3	US-08-543-246B-22	Sequence 22, Appli
55	158	12.5	225	5	US-08-738-462-2	Sequence 2, Appli
56	158	12.5	225	5	PCT-US94-07587-2	Sequence 2, Appli
57	155	12.3	199	5	PCT-US93-10418-4	Sequence 4, Appli
58	154.5	12.3	209	3	US-08-772-440-4	Sequence 4, Appli
59	153	12.0	167	3	US-08-772-440-21	Sequence 21, Appli
60	151.5	12.0	114	6	US-08-772-440-21	Sequence 21, Appli
61	151	12.0	287	1	US-08-365-103B-6	Sequence 6, Appli
62	151	12.0	300	1	US-08-365-103B-4	Sequence 4, Appli
63	151	12.0	327	1	US-08-365-103B-2	Sequence 2, Appli
64	149.5	11.9	131	3	US-08-772-440-23	Sequence 23, Appli
65	149.5	11.9	131	3	US-08-772-440-27	Sequence 27, Appli
66	149.5	11.9	145	3	US-08-772-440-14	Sequence 14, Appli
67	149.5	11.9	175	3	US-08-772-440-15	Sequence 15, Appli
68	146	11.6	287	3	US-09-113-470-6	Sequence 6, Appli
69	145.5	11.5	158	2	US-08-729-103-1	Sequence 1, Appli
70	145.5	11.5	158	2	US-08-468-113-2	Sequence 2, Appli
71	145.5	11.5	158	3	US-09-162-508-2	Sequence 2, Appli
72	145.5	11.5	158	5	PCT-US95-07169-2	Sequence 2, Appli
73	142.5	11.3	114	6	US-08-722-126A-5	Sequence 5, Appli
74	139	11.0	111	6	US-08-722-126A-9	Sequence 9, Appli
75	139	11.0	1487	3	US-08-840-962-7	Sequence 7, Appli
76	138.5	11.0	291	2	US-08-688-342-5	Sequence 5, Appli
77	138.5	11.0	291	2	US-09-113-788-5	Sequence 5, Appli
78	138.5	11.0	291	3	US-09-113-470-5	Sequence 5, Appli
79	137.5	10.9	199	3	PCT-US93-10418-2	Sequence 2, Appli
80	137	10.9	149	3	US-09-489-447-167	Sequence 167, App
81	136	10.8	114	4	US-08-722-126A-6	Sequence 6, Appli
82	136	10.8	114	5	PCT-US95-04258-6	Sequence 6, Appli
83	135	10.7	77	4	US-08-531-056A-22	Sequence 22, Appli
84	134.5	10.7	115	3	US-08-722-126A-8	Sequence 8, Appli
85	134.5	10.7	115	5	PCT-US95-04258-8	Sequence 8, Appli
86	134.5	10.7	129	4	US-09-058-740-2	Sequence 2, Appli
87	134	10.6	2409	6	US-08-690-095-6	Sequence 6, Appli
88	133	10.5	122	3	US-08-722-126A-9	Sequence 9, Appli
89	133	10.5	122	5	PCT-US95-04258-9	Sequence 9, Appli
90	132.5	10.5	1479	3	US-08-840-962-2	Sequence 2, Appli
91	129.5	10.3	505	1	US-08-220-603A-10	Sequence 10, Appli
92	129.5	10.3	1463	4	US-08-220-603A-11	Sequence 11, Appli
93	128.5	10.2	79	4	US-09-531-056A-19	Sequence 19, Appli
94	128.5	10.2	328	4	US-09-531-056A-13	Sequence 13, Appli
95	127.5	10.1	190	4	US-08-177-446-14	Sequence 14, Appli
96	127	10.1	1455	3	US-08-840-962-5	Sequence 5, Appli
97	124.5	9.9	130	1	US-07-893-9324A-7	Sequence 7, Appli
98	124.5	9.9	130	5	PCT-US93-1034A-7	Sequence 7, Appli
99	124.5	9.9	320	1	US-08-365-103B-10	Sequence 10, Appli
100	124.5	9.9	321	1	US-08-365-103B-8	Sequence 8, Appli

## ALIGNMENTS

RESULT 1  
US-09-247-155-97  
Sequence 97, Application US/09247155A  
Patent No. 612322  
GENERAL INFORMATION:  
APPLICANT: Dumas Milne Edwards, Jean-Baptiste  
APPLICANT: Duciery, Aymeric  
APPLICANT: Bouqueleret, Lydie  
TITLE OF INVENTION: Complementary DNAs  
FILE REFERENCE: GENSET.021A  
CURRENT APPLICATION NUMBER: US/09/247.155A  
CURRENT FILING DATE: 1998-02-09  
EARLIER APPLICATION NUMBER: 60/074.121  
EARLIER FILING DATE: 1998-02-09  
EARLIER APPLICATION NUMBER: 60/081.563  
EARLIER FILING DATE: 1998-04-13  
EARLIER APPLICATION NUMBER: 60/096.116  
EARLIER FILING DATE: 1998-08-10  
EARLIER APPLICATION NUMBER: 60/099.273  
EARLIER FILING DATE: 1998-10-04  
NUMBER OF SEQ ID NOS: 182  
SOFTWARE: Patent.pm  
SEQ ID NO 97  
LENGTH: 229  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SIGNAL  
LOCATION: -47...-1  
US-09-247-155-97  
Query Match 100.0%; Score 1261; DB 4; Length 229;  
Best Local Similarity 100.0%; Pred. No. 1.2e-128;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MODEGGYTLNFKTRKPLAVSGPSSFWRMATLILICGVWVVGVAIGISVMORN 60  
DB 1 MODEGYTLNFKTRKPLAVSGPSSFWRMATLILICGVWVVGVAIGISVMORN 60  
QY 61 YLDENENRTGTLQOLANRFGQYVVKOSLKTGFEGHKCSPDITWRYYGDSYGFPEHN 120  
DB 61 YLDENENRTGTLQOLANRFGQYVVKOSLKTGFEGHKCSPDITWRYYGDSYGFPEHN 120  
QY 121 LTWESKQYCTDMATLILIKINRNIVYIKATHLIRWVGLSEFKSNVWTKWEDGSVISE 180  
DB 121 LTWESKQYCTDMATLILIKINRNIVYIKATHLIRWVGLSEFKSNVWTKWEDGSVISE 180  
QY 181 NMFEFLDGGKMNCAVFNHNGMHPTECNKHYVACERXAGMTXVDLP 229  
DB 181 NMFEFLDGGKMNCAVFNHNGMHPTECNKHYVACERXAGMTXVDLP 229

RESULT 2  
US-09-996-243-424  
Sequence 424, Application US/09996243  
Patent No. 6478825  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Bostein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paon, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C13  
CURRENT APPLICATION NUMBER: US/09/996.243  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087609  
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PRIOR APPLICATION NUMBER: 60/087827  
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PRIOR APPLICATION NUMBER: 60/088021  
PRIOR FILING DATE: 1998-06-04  
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PRIOR FILING DATE: 1998-06-04  
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PRIOR FILING DATE: 1998-06-04  
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PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088202  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088212  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088217  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088655  
PRIOR FILING DATE: 1998-06-09  
PRIOR APPLICATION NUMBER: 60/088734

[illegible]

PRIOR APPLICATION NUMBER: 60/030540  
 PRIOR FILING DATE: 1998-06-24  
 PRIOR APPLICATION NUMBER: 60/030542  
 PRIOR FILING DATE: 1998-06-24  
 PRIOR APPLICATION NUMBER: 60/030557  
 PRIOR FILING DATE: 1998-06-24  
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 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/031633  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/031978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/031982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/032162  
 PRIOR FILING DATE: 1998-07-09

Query Match	99.44%	Score 1253	DB 4	Length 229
Best Local Similarity	99.64%	Pred. No. 8,5e-128		
Matches 229	Conservative 0	Mismatches 1	Indels 0	Gaps 0

  

QY	1	MODEDGYITINITKTRPALVSGPASPFRNRVVALIILILICVGMVGLVAGIWSVQNR	60
Db	1	MOEDGYITINITKTRPALVSGPASPFRNRVVALIILILICVGMVGLVAGIWSVQNR	60
QY	61	YLDDENNRGTGQOLAKRFQGVVKSSEAKGFTFKHCKSPCDNNMYSYGSDCGFPRHN	120
Db	61	YLDDENNRGTGQOLAKRFQGVVKSSEAKGFTFKHCKSPCDNNMYSYGSDCGFPRHN	120
QY	121	LWEEBSKQCTDNNATLKTINDENIVYIYARTHLIRWGLISROKSNWEKWEDEGSVISE	180
Db	121	LWEEBSKQCTDNNATLKTINDENIVYIYARTHLIRWGLISROKSNWEKWEDEGSVISE	180
QY	181	NMEFEFLDEGKNNNCAYFHNGKHPFCECKXYIMCERKAGMTVDOLP	229
Db	181	NMEFEFLDEGKNNNCAYFHNGKHPFCECKXYIMCERKAGMTVDOLP	229

  

RESULT 3	US-09-996-243-319
Sequence 319	Application US/09996243
Patent No. 6478825	
GENERAL INFORMATION:	
APPLICANT: Ashkenazi Avi J.	
APPLICANT: Baker, Kevin P.	
APPLICANT: Botstein, David	
APPLICANT: Desnoyers, Luc	
APPLICANT: Eaton, Dan J.	
APPLICANT: Ferrara, Napoleone	

APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kilgavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C13  
CURRENT APPLICATION NUMBER: US/09/996,243  
PRIOR FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
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PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090429  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090431  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090435  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090444  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090445



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/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090472
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090535
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090540
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090542
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090557
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090676
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090678
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090690
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090694
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090695
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090696
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090862
/ PRIOR FILING DATE: 1998-06-26
/ PRIOR APPLICATION NUMBER: 60/090863
/ PRIOR FILING DATE: 1998-06-26
/ PRIOR APPLICATION NUMBER: 60/091360
/ PRIOR FILING DATE: 1998-07-01
/ PRIOR APPLICATION NUMBER: 60/091478
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091544
/ PRIOR FILING DATE: 1998-07-01
/ PRIOR APPLICATION NUMBER: 60/091519
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091626
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091633
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091978
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/091982
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/092182
/ PRIOR FILING DATE: 1998-07-09
```

Query Match 28.0%; Score 352.5; DB 4; Length 280;  
Best Local Similarity 29.1%; Pred. No. 4,4e-30;  
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

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QY 1 MODEDGYTLNKTFRKPAV-----SVGPASSFWWRVALLILLCVGVVGLVAGI 53
DB 11 MDDDDGDTTMSLHSAQATITRHPERRTERHAPSSWTWPRVALTLTLCLVILIGLALGL 70
QY 54 W-----SYMORNY-----LQDENENRTGTLQOLAKRFQOVVYKQSE 89
DB 71 LFFQYQLSNTGDTISQMERLGNISQELQVQNTKLASQGHVAFKCR-----E 124
QY 90 LKGFTHGKSCPDITNMYGYGDSYGFPRHNTWESQYCTDMATLTKIDNENIYFI 149
DB 125 LYNKAGAHRCSPCTEOWKMGDNCQFYKDSKSWEDCKYFCLSENSTMLKINKQEDLEFA 184
QY 150 KATH-----LIRWGLSRQNSNEVWKWEDSVISNMFEPLD--GKNMNCAYFHNGKM 203
DB 185 ASQYSEFTYISYVWGLRPSDQKALMMDGTPFTSELHIITDVTSPRSRCVAILNMTI 244
QY 204 HPTFCENHYLMCERKAGMTKYDQI 228
DB 245 FSKDCKELKRCVCERRAGMYKPESL 269
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RESULT 4  
US-09-055-095-1

```
/ Sequence 1, Application US/09055095
/ Patent No. 545309
/ GENERAL INFORMATION:
/ APPLICANT: Tang, Y. Tom
/ APPLICANT: Patterson, Chandra
/ APPLICANT: Corley, Neil C.
/ APPLICANT: Sather, Susan
/ TITLE OF INVENTION: HUMAN OXIDIZED LDL RECEPTOR
/ NUMBER OF SEQUENCES: 4
/ CORRESPONDENCE ADDRESS:
/ ADDRESS: Incyte Pharmaceuticals, Inc.
/ STREET: 3174 Porter Dr.
/ CITY: Palo Alto
/ STATE: CA
/ COUNTRY: USA
/ ZIP: 94304
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSeq for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/055,095
/ FILING DATE: Filed Herewith
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER:
/ FILING DATE:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Billings, Lucy J.
/ REGISTRATION NUMBER: 36,749
/ REFERENCE/DOCKET NUMBER: PF-0500 US
/ TELEPHONE: 650-845-4166
/ TELEFAX: 650-855-0555
/ INFORMATION FOR SEQ ID NO: 1:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 284 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ IMMEDIATE SOURCE:
/ LIBRARY: LUNG0109
/ CLONE: 1355922
/ US-05-055-095-1
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Query Match 27.8%; Score 350.5; DB 2; Length 284;  
Best Local Similarity 27.6%; Pred. No. 7,4e-30;  
Matches 77; Conservative 54; Mismatches 91; Indels 57; Gaps 6;

```
QY 1 MODEDGYTLNKTFRKPAV-----SVGPASSFWWRVALLILLCVGVVGLVAGI 53
DB 1 MDDDDGDTTMSLHSAQATITRHPERRTERHAPSSWTWPRVALTLTLCLVILIGLALGL 60
QY 54 W-----SYMORNY-----LQDENENRTGTLQOLAKRFQOVVYKQSE 75
DB 61 LKRSALPBGGSWVQVQYVQLSNTGDTISQMERLGNISQELQVQNTKLASQGH 120
QY 76 LAKFQOVVYKQSEHLKGFTHGKSCPDITNMYGYGDSYGFPRHNTWESQYCTDMNA 135
DB 121 VAEKLCR-----ELYNKAGAHRCSPCTEOWKMGDNCQFYKDSKSWEDCKYFCLSENS 174
QY 136 TLKIDNENIYFIKATH-----LIRWGLSRQNSNEVWKWEDSVISNMFEPLD--G 189
DB 175 TMLKINKQEDLEFAASQSYSEFFYSYVWGLRPSDQKALMMDGTPFTSELHIITDVT 234
QY 190 KGNMNCAYFHNGKMHPTFCENHYLMCERKAGMTKYDQI 228
DB 235 PRSHDCAIILNMTIFSKDCKELKRCVCERRAGMYKPESL 273
```

RESULT 5  
US-08-772-440-2

Sequence 2, Application US/08772440  
Patent No. 6046158  
GENERAL INFORMATION:  
APPLICANT: Aritzumi, Kiyoshi  
APPLICANT: Takashima, Akira  
TITLE OF INVENTION: UNIQUE CENDRITIC CELL-ASSOCIATED C-TYPE  
TITLE OF INVENTION: LECTINS, DECTIN-1 AND DECTIN-2; COMPOSITIONS AND USES  
TITLE OF INVENTION: THEREOF  
NUMBER OF SEQUENCES: 42  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Arnold, White & Durkee  
STREET: P.O. Box 4433  
CITY: Houston  
STATE: Texas  
COUNTRY: USA  
ZIP: 77210  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/772,440  
FILING DATE: CONCURRENTLY HERewith  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Parker, David L.  
REGISTRATION NUMBER: 32,165  
REFERENCE/DOCKET NUMBER: UTID:493  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 512/418-3000  
TELEFAX: 512/474-7577  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 244 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-772-440-2

Query Match 22.8%; Score 286; DB 3; Length 244;  
Best Local Similarity 32.6%; Pred. No. 3, 5e-23;  
Matches 78; Conservative 32; Mismatches 101; Indels 28; Gaps 9;

QY 3 DEDGTYITNKT-----RKNALVSVGP-ASFWRMVALLILLCYGMVVGVALGINSVM 57  
DB 11 DEDGTYITNKT-----RKNALVSVGP-ASFWRMVALLILLCYGMVVGVALGINSVM 70  
QY 58 QR-----NYLDENENRTGTLQOLAKRFQYVVKQSELKGTFGKHKSPCDTWMR 107  
DB 71 RNSGRNPEKCNFJSRKENHKTPESSIDEKVA--SKASQTTGGF--SQSCLP---NWI 124  
QY 108 YVDSQCYGFERNLWBSKQYCTDMNATLTKIDNENIVEYIKART--HLIR--WVGLSR 163  
DB 125 MHGKCYLFSSFGSGNMYGSKRHCSQDLGALLKIDNSKEPELESQSHRINAFWIGLSR 184  
QY 164 QKSNVWVWEDSGSVSENMFEELEDGKGM--NCAVPHNGNHTPTCENKHYLMCEKX 219  
DB 185 NQSEGPWVEDSGAFPPNSFOVNTVPPQESLHNCWIGHSVYNQICNTSSYSICEKE 243

RESULT 6  
US-08-688-342-1  
Sequence 1, Application US/08688342  
Patent No. 5871964  
GENERAL INFORMATION:  
APPLICANT: Au-Young, Janice  
APPLICANT: Cocks, Benjamin G.  
APPLICANT: Goli, Surya K.  
APPLICANT: Hillman, Jennifer L.  
TITLE OF INVENTION: NOVEL HUMAN C-TYPE LECTIN  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: US  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/688,342  
FILING DATE: Filed Herewith  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0095-1 CTP  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 201 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: MMLRIDT01  
CLONE: 515847  
US-08-688-342-1

Query Match 22.2%; Score 280.5; DB 2; Length 201;  
Best Local Similarity 28.9%; Pred. No. 1, 7e-22;  
Matches 67; Conservative 34; Mismatches 76; Indels 53; Gaps 4;

QY 3 DEDGTYITNKT-----RKNALVSVGP-ASFWRMVALLILLCYGMVVGVALGINSVM 57  
DB 11 DEDGTYITNKT-----RKNALVSVGP-ASFWRMVALLILLCYGMVVGVALGINSVM 70  
QY 58 QR-----NYLDENENRTGTLQOLAKRFQYVVKQSELKGTFGKHKSPCDTWMR 117  
DB 71 S-----SCOPRMIITFKSCYLS 89  
QY 118 RHNLTWBSKQYCTDMNATLTKIDNEN--IVEYIKARTLIRWVGLSRKSNSEWKM 173  
DB 90 MSLNSWDSKQKQOAGSNLTKIDNSNELGFIKQVSSQPDNSFWIGLSRPTQEVPLWE 149  
QY 174 DGSVISENMEPF---LEDGKNANCAVPHNGNHTPTCENKHYLMCEKX 222  
DB 150 DGSVISENMEPF---LEDGKNANCAVPHNGNHTPTCENKHYLMCEKX 201

RESULT 7  
US-09-113-788-1  
Sequence 1, Application US/09113788  
Patent No. 5869104  
GENERAL INFORMATION:  
APPLICANT: Au-Young, Janice  
APPLICANT: Cocks, Benjamin G.  
APPLICANT: Goli, Surya K.  
APPLICANT: Hillman, Jennifer L.  
TITLE OF INVENTION: NOVEL HUMAN C-TYPE LECTIN  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: US  
ZIP: 94304  
COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/113,788  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/688,342  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0095-1 CIP  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 201 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: MMLRIDT01  
CLONE: 515847  
US-09-113-788-1

Query Match 22.2%; Score 280.5; DB 2; Length 201;  
Best Local Similarity 28.9%; Pred. No. 1.7e-22;  
Matches 67; Conservative 34; Mismatches 78; Indels 53; Gaps 4;

QY 3 DEDGTTNTRKALSV-----GPASSFWRMALILILICGMVYGLVALGIMVM 57  
DB 11 DEDGTTNTRKALSV-----GPASSFWRMALILILICGMVYGLVALGIMVM 70  
QY 58 QRYNLDENENNTGTLQOLAKRFQYVVKSHLKGTFKHKSPCDTWRRYDSCYGF 117  
DB 71 S-----SPCPRWITIKSCYIFS 89  
QY 118 RHNLWESKQYCTDMNATLTKIDN-----IVEYIKARTLIRWGLSRKSNFWKWE 173  
DB 90 MSINWDSKQKQWQGLGSLKIDSNELGFIWKQVSSQPDNSFWIGLSRPQTEVPWLM 149  
QY 174 DGSVISEKPFER---LEDGKGMNCAVEHNGMHTFPENKHYLMCEKAKM 222  
DB 150 DGSVISEKPFER---LEDGKGMNCAVEHNGMHTFPENKHYLMCEKAKM 201

RESULT 8  
US-08-690-095-1  
Sequence 1, Application US/08690095  
Patent No. 5792648  
GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer J.  
APPLICANT: Au-Young, Janice  
APPLICANT: Goli, Surya K.  
TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ Version 1.5  
CURRENT APPLICATION DATA:  
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/690,095  
FILING DATE: Filed Herewith  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0110 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 272 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: MPMGNOT03  
CLONE: 513418  
US-08-690-095-1

Query Match 20.9%; Score 264; DB 1; Length 272;  
Best Local Similarity 28.3%; Pred. No. 1.6e-20;  
Matches 73; Conservative 39; Mismatches 102; Indels 44; Gaps 6;

QY 1 MODDGYITNTRK-----RKPALVSV---PASSFWRMALILILICGMVYGLVAL 51  
DB 1 MSEEVTYADLQFQNSSENEKIPKIGKGEKAPAPASHWRPAPALFTLLCLLLIGLGL 60  
QY 52 -----GIVSVNORNY-----LDENENRTGTLQOLAKRFQY 83  
DB 61 ASMTHTLTKIMKCKNKLQNSSEIQRYISLQLSMNWISIKIRLSTLTTLTAYLGR- 119  
QY 84 VVKSEIKGTFKHKSPCDTWRRYDSCYGFERRHNLWESKQYCTDMNATLTKIDNR 143  
DB 120 -----ELVSKQEHKRCPCPRRWIWHKDSCYFLSDQVQTWQESWMAQAQNASILKINK 174  
QY 144 NIVEYIKARTLIRWGLSRKSNFWKMDGSYISNMFLEDGKGMNCAVEHNGK 202  
DB 175 NALFIRKQSRSDYWGGLSEEDSTGRMVDNIINSAAWIRNAPDLNNMYCGYINRLY 234  
QY 203 MHPFCENKHYLMCEKAK 220  
DB 235 VQYHCHYKMKMICHEKMA 252

RESULT 9  
US-09-113-789-1  
Sequence 1, Application US/09113789  
Patent No. 6034219  
GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer J.  
APPLICANT: Au-Young, Janice  
APPLICANT: Goli, Surya K.  
TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/113,789  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/690,095

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FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0110 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 272 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: MPM00703
CLONING: 513418
US-09-113-789-1

Query Match
Best local Similarity 20.9%; Score 264; DB 3; Length 272;
Matches 73; Conservative 39; Mismatches 102; Indels 44; Gaps 6;

QY 1 MDEGTYITNKT-----RKPAVSVG---ASSFWRMVALILLCVGVGLVAL 51
DB 1 MSEVYVADLQFQNSSEMEKLPETGKGEKAPAPSHVWRPALFTLLCLLITGLVL 60
QY 52 -----GIVSVQNRNY-----LQDENENRTGLQQLAKRFGQY 83
DB 61 ASMFVTLKLEMKKKNLQNSSELQRLNISQLSMNNKISKINLSTLQTLAKTKCR- 119
QY 84 VVKSEIKGTFKHKCSPCDTNMRYDGSCYGFPRHNTWEESQYCTDMNATLKIDNR 143
DB 120 -----ELYSKQEHKCKXCPRRWTMFKDSCYFLSDVQWQESKACAAQNASLTKINX 174
QY 144 NIVEYIKARTHLI-RWGLSROKSNVWKMEDGSVISNMFEFLDGGNNNCAYFENGK 202
DB 175 NALPFIQSQSSYIWMGLSPEDSTRGMRVNIINSAWITRNAPDLNNYCGYINFLY 234
QY 203 MHPFCNKHYLMCEKKA 220
DB 235 VQYHCTYKMKMICERKA 252

RESULT 10
US-09-482-273-126
Sequence 126, Application US/09482273
Patent No. 6534631
GENERAL INFORMATION:
ATTORNEY/AGENT INFORMATION:
TITLE OF INVENTION: 71 Human Secreted Proteins
FILE REFERENCE: P2030P1
CURRENT APPLICATION NUMBER: US/09/482,273
EARLIER FILING DATE: 2000-01-13
EARLIER APPLICATION NUMBER: PCT/US99/15849
EARLIER FILING DATE: 1998-07-14
EARLIER APPLICATION NUMBER: 60/092,921
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/092,922
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/092,956
EARLIER FILING DATE: 1998-07-15
NUMBER OF SEQ ID NOS: 267
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 126
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
US-09-482-273-126

Query Match
Best local Similarity 20.9%; Score 263.5; DB 4; Length 248;
Matches 73; Conservative 39; Mismatches 102; Indels 44; Gaps 6;
```

```

Matches 67; Conservative 35; Mismatches 89; Indels 35; Gaps 4;

QY 24 PASSFWRMVALILLCVGVGLVAL-----GIVSVQNRNY----- 61
DB 16 PASHVWRPALFTLLCLLITGLVLASMFHTIKIMKKNLQNSSELQRLNISQ 75
QY 62 -----LQDENENRTGLQQLAKRFGQYVVKSEIKGTFKHKCSPCDTNMRYDGSCY 115
DB 76 LMSNNNISKTRNLSTLQTLAKTKCR-----ELYSKQEHKCKXCPRRWTMFKDSCYIF 129
QY 116 FPRHNTWEESQYCTDMNATLKIDNRNIVEYIKARTHLI-RWGLSROKSNVWKMED 174
DB 130 LSDVDQWQESKACAAQNASLTKINNKALERTKQSSYDVLGLSPEDSTRGMRV 189
QY 175 GSVISNMFEFLDGGNNNCAYFNGKXHPFCNKHYLMCEKKA 220
DB 190 NINSSAWITRNAPDLNNYCGYINFLYQYHCTYKMKMICERKA 235

RESULT 11
US-08-772-440-13
Sequence 13, Application US/08772440
Patent No. 6046158
GENERAL INFORMATION:
ATTORNEY/AGENT INFORMATION:
APPLICANT: Arizumi, Kiyoshi
TITLE OF INVENTION: UNIQUE DENDRITIC CELL-ASSOCIATED C-TYPE
TITLE OF INVENTION: LEGTIN, DRCITIN-1 AND DRCITIN-2; COMPOSITIONS AND USES
NUMBER OF SEQUENCES: 42
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/772,440
FILING DATE: CONCURRENTLY HERewith
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Parker, David L.
REGISTRATION NUMBER: 32,165
REFERENCE/DOCKET NUMBER: UTXD:493
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 199 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-772-440-13

Query Match
Best local Similarity 20.3%; Score 255.5; DB 3; Length 199;
Matches 70; Conservative 26; Mismatches 80; Indels 53; Gaps 8;

QY 3 DEDGYITLNIKT-----RKPAVSVG---ASSFWRMVALILLCVGVGLVALGIVSV 57
DB 11 DEDGYITLNIKT-----RKPAVSVG---ASSFWRMVALILLCVGVGLVALGIVSV 65
QY 58 QNRYLQDENENRTGLQQLAKRFGQYVVKSEIKGTFKHKCSPCDTNMRYDGSCYGF 117
DB 66 -----ALGSP-SQSCLP---NMLVGRKSCYFLFS 89
```

Qy 118 RHNLTWESKOYCTDMNATLTKIDNRNIVEYKART--HLIR--WVGLSRQXSNWEVWKE 173  
Db 90 FSGNSWYSKRCOSQLGATLTKIDNSKEFEPIESQTSRIRIAPFISGRNSBEPWME 149  
Qy 174 DGSVISENFEFLDEKGNM--NCAYFHNGXMHPTFCENKHYLMCERK 219  
Db 150 DGSAPFNSFYQVNTVPOESLHNCVWIHGSVYVNOICNTSSYSICEKE 198

## RESULT 12

US-09-055-095-3  
Sequence 3, Application US/09055095  
Patent No. 5945308  
GENERAL INFORMATION:  
APPLICANT: Tang, Y. Tom  
APPLICANT: Patterson, Chandra  
APPLICANT: Corley, Neil C.  
APPLICANT: Sather, Susan  
TITLE OF INVENTION: HUMAN OXIDIZED LDL RECEPTOR  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Dr.  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/055,095  
FILING DATE: Filed Herewith  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCES/DOCKET NUMBER: PP-0500 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555  
TELEFAX: 650-845-4166  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 273 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: Genbank  
CLONE: 1902984  
US-09-055-095-3

Query Match 19.8%; Score 249.5; DB 2; Length 273;  
Best Local Similarity 25.7%; Pred. No. 6.2e-19;  
Matches 62; Conservative 50; Mismatches 78; Indels 51; Gaps 7;

Qy 29 WWRVVALILLICGVGVVGLVALGIWSVQRYNVLQDENENRT----- 70  
Db 34 WMCILAATLIGVLCGLVVTIVLWGLQSVSDLLTQEQANLTHQKKLEGOISARQQAEE 93  
Qy 71 -----GTLOQLARFCQYVVKQSE-----LKGTFG-KKCS-PDDTWRVYGD 111  
Db 94 ASQSENEMLKEMIFLARKLNKSKQWELHONLNLQETLKRVCANCSAPCPQDPIWIGE 153  
Qy 112 SCYGFPRNLTWESKOYCTDMNATLTKIDNRNIVEYK---ARTHLIRWGLSRQXNE 168  
Db 154 NCYLFSSGSFVWESQEKCLSLDAKLKLNSTADIDPFIQQAISYSSPFWGLSRNPSY 213

Qy 169 VWKWDGSGVISENFEFLDEKGNM-----CAYFHNGXMHPTFCENKHYLMCERK 221  
Db 214 PMLWEDGSPMLPHLFRV----RGAVSQYPSGTCAYTORGAIVANCLLAPSLICQKXAN 269  
Qy 222 M 222  
Db 270 L 270

## RESULT 13

US-08-809-494A-6  
Sequence 6, Application US/08809494A  
Patent No. 5962260  
GENERAL INFORMATION:  
APPLICANT: Sawamura, Tatsuya  
APPLICANT: Masaki, Tomoo  
TITLE OF INVENTION: Modified Low-Density Lipoprotein  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSER: McAlay Fisher Nissen Goldberg & Kiel  
STREET: 261 Madison Avenue  
CITY: New York  
STATE: NY  
COUNTRY: USA  
ZIP: 10016-2391  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC Compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/809,494A  
FILING DATE: 24-MAR-1997  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 6-321705  
FILING DATE: 30-NOV-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 7-214206  
FILING DATE: 31-JUL-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldberg, Jules R  
REGISTRATION NUMBER: 24408  
REFERENCES/DOCKET NUMBER: JG-YY-43632CT  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212 986-4090  
TELEFAX: 212 818-9479  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 273 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-809-494A-6

Query Match 19.8%; Score 249.5; DB 2; Length 273;  
Best Local Similarity 25.7%; Pred. No. 6.2e-19;  
Matches 62; Conservative 50; Mismatches 78; Indels 51; Gaps 7;

Qy 29 WWRVVALILLICGVGVVGLVALGIWSVQRYNVLQDENENRT----- 70  
Db 34 WMCILAATLIGVLCGLVVTIVLWGLQSVSDLLTQEQANLTHQKKLEGOISARQQAEE 93  
Qy 71 -----GTLOQLARFCQYVVKQSE-----LKGTFG-KKCS-PDDTWRVYGD 111  
Db 94 ASQSENEMLKEMIFLARKLNKSKQWELHONLNLQETLKRVCANCSAPCPQDPIWIGE 153  
Qy 112 SCYGFPRNLTWESKOYCTDMNATLTKIDNRNIVEYK---ARTHLIRWGLSRQXNE 168  
Db 154 NCYLFSSGSFVWESQEKCLSLDAKLKLNSTADIDPFIQQAISYSSPFWGLSRNPSY 213  
Qy 169 VWKWDGSGVISENFEFLDEKGNM-----CAYFHNGXMHPTFCENKHYLMCERK 221

Db 214 PWIMEDGSPIMHLEFRV----RGAVSQTYPSGTCAVYIQGAVYAENCILAAFSIOCKKAN 269  
QY 222 M 222  
Db 270 L 270

RESULT 14  
US-09-352-302-6  
; Sequence 6, Application US/09352302  
; Patent No. 6197937  
; GENERAL INFORMATION:  
; APPLICANT: Sawamura, Tatsuya  
; TITLE OF INVENTION: Modified Low-Density Lipoprotein  
; TITLE OF INVENTION: Receptor  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: McAlister Fisher Nissen Goldberg & Kiel  
; STREET: 261 Madison Avenue  
; CITY: New York  
; STATE: NY  
; COUNTRY: USA  
; ZIP: 10016-2391  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/352,302  
; FILING DATE: 12-JUL-1999  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 6-321705  
; FILING DATE: 30-NOV-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 7-214206  
; FILING DATE: 31-JUL-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldberg, Jules B  
; REGISTRATION NUMBER: 24408  
; REFERENCE/DOCKET NUMBER: JG-YV-4363PCT/D  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212 986-4090  
; TELEFAX: 212 818-9479  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 273 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-352-302-6

Query Match 19.8%; Score 249.5; DB 3; Length 273;  
Best Local Similarity 25.7%; Pred. No. 6.2e-19;  
Matches 62; Conservative 50; Mismatches 78; Indels 51; Gaps 7;  
QY 29 WRRVALLILLICVGVVGLVGLVMSVMOHNYLQDENENRT-----70  
Db 34 WWCIAAATLGVLCGLVTVIVLGMOLSOVSDLLTQEQANLTHQKKLEISARQAAE 93  
QY 71 -----GTLQOLARPCQYVVKGB-----LKGTRK-HKCS-PDCTWRYGDD 111  
Db 94 ASQSENEELKEMIEITLARKINEKSKQWELHQNINLOETLKVANCSAPCPQWIMWGE 153  
QY 112 SCYGFERNLWESKQYCTDMNATLLKIDNRNIVEYK---ARHLLRWGLSKQKSE 168  
Db 154 NCYLPSSGSFWERSQKCLSLDAKLKINSTADIDFIQQAISYSSPFPMGLSKRNSY 213  
QY 169 VMKWDGVSISNMFEPLDQGNM-----CAVFNKGKPTFCENKAYLMCERKAG 221

Db 214 PWIMEDGSPIMHLEFRV----RGAVSQTYPSGTCAVYIQGAVYAENCILAAFSIOCKKAN 269  
QY 222 M 222  
Db 270 L 270

RESULT 15  
US-08-809-494A-4  
; Sequence 4, Application US/08809494A  
; Patent No. 5962260  
; GENERAL INFORMATION:  
; APPLICANT: Sawamura, Tatsuya  
; TITLE OF INVENTION: Modified Low-Density Lipoprotein  
; TITLE OF INVENTION: Receptor  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: McAlister Fisher Nissen Goldberg & Kiel  
; STREET: 261 Madison Avenue  
; CITY: New York  
; STATE: NY  
; COUNTRY: USA  
; ZIP: 10016-2391  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/809,494A  
; FILING DATE: 24-MAR-1997  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 6-321705  
; FILING DATE: 30-NOV-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 7-214206  
; FILING DATE: 31-JUL-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldberg, Jules B  
; REGISTRATION NUMBER: 24408  
; REFERENCE/DOCKET NUMBER: JG-YV-4363PCT  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212 986-4090  
; TELEFAX: 212 818-9479  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 273 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-809-494A-4

Query Match 19.3%; Score 243.5; DB 2; Length 273;  
Best Local Similarity 24.9%; Pred. No. 2.8e-18;  
Matches 64; Conservative 55; Mismatches 85; Indels 53; Gaps 8;  
QY 16 KPAIVSVGPASSFEMRWVALLILLICVGVVGLVGLVMSVMOHNYLQDENENRTGL-- 73  
Db 20 KTAKTGFVFSWRYPAVTLGVLCGLVTVIL-----ILQSVSDIKKQCANITH 75  
QY 74 -----QQLAKRCQYVVKGS-----ELKTRK-GEK-----98  
Db 76 QEDILBQILDAQRSEKSAQDSQKLEMETITLAKKDESKKIMELHROKNIQEVKE 135  
QY 99 -----CSPDITWRYGDSYGFERNLWESKQYCTDMNATLLKIDNRNIVEYK---A 151  
Db 136 AANYSGPCQPDWMLHENCYQFSGSFWERSQKCLSLDAKLKINSTDELFRIQMIA 195  
QY 152 RTHLLRWGLSKQKSEVMKWDGVSISNMFEPLDQGNM-----NCAVFNKGKPTFC 207  
Db 196 HSSPFPMWGLSMRKENSWMLEDQTPLEPLFR-IQGAVSRWPSGTCAVYIQGIVFAEN 254

QY 208 CENKHYLMCEKAGMTK 224  
| : : : : :  
Db 255 CILTAFTSCCKKANLIR 271

## RESULT 16

US-09-352-302-4  
; Sequence 4, Application US/09352302  
; Patent No. 6197937  
; GENERAL INFORMATION:  
; APPLICANT: Sawamura, Tatsuya  
; APPLICANT: Masaki, Tomoo  
; TITLE OF INVENTION: Modified Low-Density Lipoprotein  
; TITLE OF INVENTION: Receptor  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: McAnally Fisher Nissen Goldberg & K&L  
; STREET: 261 Madison Avenue  
; CITY: New York  
; STATE: NY  
; COUNTRY: USA  
; ZIP: 10016-2391  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/352.302  
; FILING DATE: 12-JUL-1999  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 6-321705  
; FILING DATE: 30-NOV-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 7-214206  
; FILING DATE: 31-JUL-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldberg, Jules E  
; REGISTRATION NUMBER: 24408  
; REFERENCE/DOCKET NUMBER: JG-YY-4363PCT/D  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212 986-4090  
; TELEFAX: 212 818-9479  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 273 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-352-302-4

Query Match 19.3%; Score 243.5; DB 3; Length 273;  
Best Local Similarity 24.9%; Pred. No. 2.8e-18;  
Matches 64; Conservative 55; Mismatches 85; Indels 53; Gaps 8;

QY 16 KPAIVSVGPASSFWMRWALLILILICVGMVGVVALGIVSWQRYVLDENENRGTGL-- 73  
| : : : : :  
Db 20 KTAAGTTFVSSWRYPAAVTLGVLCGLVTVIL-----ILQSVSDLIKQOANITH 75  
| : : : : :  
QY 74 -----QOLAKRFQYVVKOS--ELKGTFF--GHR----- 98  
| : : : : :  
Db 76 QEDILLEGQILAQRSRKSAQESQKELKEMIFTLAKHLDKSKKLMELHRONLNLOEVLKE 135  
| : : : : :  
QY 99 -----GSPDITWRYIGDSCTGFFRNLTWESKQYCTDMNATLTKIDNRNIVEYTK--A 151  
| : : : : :  
Db 136 AANSGPQODMLWHEENCYQFSSGSPFWKESQENCLSDAHLIKINSTDELFTIQMIA 195  
| : : : : :  
QY 152 RTHLRWGLSROKENVWKKWEDGSVISNMWFEFLDQGNM---NCAYFHNGXMHPTF 207  
| : : : : :  
Db 196 HSSPFWMLSMKRNYSWLMWEDGPTLPHLFR-IQGAVSRYPSGTCAVYTORGTVAEN 254  
| : : : : :

QY 208 CENKHYLMCEKAGMTK 224  
| : : : : :  
Db 255 CILTAFTSCCKKANLIR 271

## RESULT 17

US-09-055-095-4  
; Sequence 4, Application US/09055095  
; Patent No. 5945308  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Paterson, Chandra  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Sather, Susan  
; TITLE OF INVENTION: HUMAN OXIDIZED LDL RECEPTOR  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/055.095  
; FILING DATE: Filed Herewith  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0500 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 270 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 1902982  
US-09-055-095-4

Query Match 19.2%; Score 242.5; DB 2; Length 270;  
Best Local Similarity 25.2%; Pred. No. 3.5e-18;  
Matches 66; Conservative 54; Mismatches 83; Indels 59; Gaps 9;

QY 11 NIKRKALVSVGPASSFWMRWALLILILICVGMVGVVALGIVSWQRYVLDENENRGT 70  
| : : : : :  
Db 18 NGKTAK-----GVSSWRYPAAVTLGVLCGLVTVIL-----ILQSVSDLIKQO 67  
| : : : : :  
QY 71 GTL-----QOLAKRFQYVVKOS--ELKGTFF--GHR----- 98  
| : : : : :  
Db 68 ANTHQDILLEGQILAQRSRKSAQESQKELKEMIFTLAKHLDKSKKLMELHRONLNLO 127  
| : : : : :  
QY 99 -----GSPDITWRYIGDSCTGFFRNLTWESKQYCTDMNATLTKIDNRNIVEYI 149  
| : : : : :  
Db 128 EVLKEAANYSGPQODMLWHEENCYQFSSGSPFWKESQENCLSDAHLIKINSTDELFTI 187  
| : : : : :  
QY 150 K---ARTLLRWVGLSROKENVWKKWEDGSVISNMWFEFLDQGNM---NCAYFHNGK 202  
| : : : : :  
Db 188 QQMTAHSSFPFWMLSMKRNYSWLMWEDGPTLPHLFR-IQGAVSRYPSGTCAVYTORGT 246  
| : : : : :

QY 203 MHPTFCENKHYLMCRKAGMTK 224  
DB 247 VFAENCITLTAFTSICQKKNLIR 268

## RESULT 18

US-08-809-494A-2  
; Sequence 2, Application US/08809494A  
; Patent No. 5962260  
; GENERAL INFORMATION:  
; APPLICANT: Sawamura, Tatsuya  
; APPLICANT: Masaki, Tomoo  
; TITLE OF INVENTION: Modified Low-Density Lipoprotein  
; TITLE OF INVENTION: Receptor  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: McAlulay Fisher Nissen Goldberg & Kiel  
; STREET: 261 Madison Avenue  
; CITY: New York  
; STATE: NY  
; COUNTRY: USA  
; ZIP: 10016-2391  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/809,494A  
; FILING DATE: 24-MAR-1997  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 6-321705  
; FILING DATE: 30-NOV-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 7-214206  
; FILING DATE: 31-JUL-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldberg, Jules E  
; REGISTRATION NUMBER: 24408  
; REFERENCE/DOCKET NUMBER: JG-YY-4363PCT  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212 986-4090  
; TELEFAX: 212 818-9479  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 270 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-809-494A-2

Query Match 19.2%; Score 242.5; DB 2; Length 270;  
Best Local Similarity 25.2%; Pred. No. 3.5e-18;  
Matches 66; Conservative 54; Mismatches 83; Indels 59; Gaps 9;  
QY 11 NIKTRKPLATVSGPSSFWWRVVALILLCVGVVGLVALGIVSVQRYVLQDENENRT 70  
DB 18 NGKTAK-----GVSSWRWYPAAVTLGVLCGLVTVIL-----ILQLSQVSLIKKQ 67  
QY 71 GTL-----QQLAKRFQCYVVKOS--ELKGTFR--GK----- 98  
DB 68 ANITHQEDILBQILAQRRSEKSAQESQKELKEMIEFLAHKLDEKSKLMEIHRQNLNQ 127  
QY 99 -----CSPCDTNMRYGDSQCYGFFRHNLTWESKQYCTDNATLLKIDNENIVEYI 149  
DB 128 EVLKEAANYSGPCQDMLMHEBNCYQFSGGSFNNKSOENCLSLDAHLKINSIDLELFI 187  
QY 150 K---ARTHLIRWVGLSRQKSNVWVKEDGSVLSNMFEFLDGKGNM---NCAYFHNK 202  
DB 188 QQMLAHSPFPFWGSLSRKRPVSWLWEDGPTLPLHLR-IQGAVSRYWPSGTCAYIQGT 246  
QY 203 MHPTFCENKHYLMCRKAGMTK 224

DB 247 VFAENCITLTAFTSICQKKNLIR 268

## RESULT 19

US-09-352-302-2  
; Sequence 2, Application US/09352302  
; Patent No. 619937  
; GENERAL INFORMATION:  
; APPLICANT: Sawamura, Tatsuya  
; APPLICANT: Masaki, Tomoo  
; TITLE OF INVENTION: Modified Low-Density Lipoprotein  
; TITLE OF INVENTION: Receptor  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: McAlulay Fisher Nissen Goldberg & Kiel  
; STREET: 261 Madison Avenue  
; CITY: New York  
; STATE: NY  
; COUNTRY: USA  
; ZIP: 10016-2391  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/352,302  
; FILING DATE: 12-JUL-1999  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 6-321705  
; FILING DATE: 30-NOV-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 7-214206  
; FILING DATE: 31-JUL-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldberg, Jules E  
; REGISTRATION NUMBER: 24408  
; REFERENCE/DOCKET NUMBER: JG-YY-4363PCT/D  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212 986-4090  
; TELEFAX: 212 818-9479  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 270 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-352-302-2

Query Match 19.2%; Score 242.5; DB 3; Length 270;  
Best Local Similarity 25.2%; Pred. No. 3.5e-18;  
Matches 66; Conservative 54; Mismatches 83; Indels 59; Gaps 9;  
QY 11 NIKTRKPLATVSGPSSFWWRVVALILLCVGVVGLVALGIVSVQRYVLQDENENRT 70  
DB 18 NGKTAK-----GVSSWRWYPAAVTLGVLCGLVTVIL-----ILQLSQVSLIKKQ 67  
QY 71 GTL-----QQLAKRFQCYVVKOS--ELKGTFR--GK----- 98  
DB 68 ANITHQEDILBQILAQRRSEKSAQESQKELKEMIEFLAHKLDEKSKLMEIHRQNLNQ 127  
QY 99 -----CSPCDTNMRYGDSQCYGFFRHNLTWESKQYCTDNATLLKIDNENIVEYI 149  
DB 128 EVLKEAANYSGPCQDMLMHEBNCYQFSGGSFNNKSOENCLSLDAHLKINSIDLELFI 187  
QY 150 K---ARTHLIRWVGLSRQKSNVWVKEDGSVLSNMFEFLDGKGNM---NCAYFHNK 202  
DB 188 QQMLAHSPFPFWGSLSRKRPVSWLWEDGPTLPLHLR-IQGAVSRYWPSGTCAYIQGT 246  
QY 203 MHPTFCENKHYLMCRKAGMTK 224



Db 247 VFAENCILTAFSIOCKKANILR 268

RESULT 20

US-08-772-440-8

Sequence 8, Application US/08772440

Patent No. 6046158

GENERAL INFORMATION:

APPLICANT: Arizumi, Kiyoshi

TITLE OF INVENTION: UNIQUE DENDRITIC CELL-ASSOCIATED C-TYPE

TITLE OF INVENTION: LECTINS, DECTIN-1 AND DECTIN-2; COMPOSITIONS AND USES

TITLE OF INVENTION: THERZOF

NUMBER OF SEQUENCES: 42

CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: Texas

COUNTRY: USA

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/772,440

FILING DATE: CONCURRENTLY HEREWITH

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Parker, David L.

REGISTRATION NUMBER: 32,165

REFERENCE/DOCKET NUMBER: UTXD:493

TELECOMMUNICATION INFORMATION:

TELEPHONE: 512/418-3000

TELEFAX: 512/474-7577

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 176 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

US-08-772-440-8

Query Match 18.9%; Score 238.5; DB 3; Length 176;

Best Local Similarity 33.5%; Pred. No. 5.2e-18;

Matches 56; Conservative 24; Mismatches 74; Indels 13; Gaps 6;

Db 60 NYLDENENRTGLQOLAKRFQCYVVKOSBLKGFPGHKCSPCDTNWRYGDSCYGFFRH 119

Sequence 10, Application US/08772440

Patent No. 6046158

GENERAL INFORMATION:

APPLICANT: Arizumi, Kiyoshi

TITLE OF INVENTION: UNIQUE DENDRITIC CELL-ASSOCIATED C-TYPE

TITLE OF INVENTION: LECTINS, DECTIN-1 AND DECTIN-2; COMPOSITIONS AND USES

TITLE OF INVENTION: THERZOF

NUMBER OF SEQUENCES: 42

CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: Texas

COUNTRY: USA

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/772,440

FILING DATE: CONCURRENTLY HEREWITH

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Parker, David L.

REGISTRATION NUMBER: 32,165

REFERENCE/DOCKET NUMBER: UTXD:493

TELECOMMUNICATION INFORMATION:

TELEPHONE: 512/418-3000

TELEFAX: 512/474-7577

INFORMATION FOR SEQ ID NO: 31:

SEQUENCE CHARACTERISTICS:

LENGTH: 180 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

US-08-772-440-31

Query Match 18.9%; Score 238.5; DB 3; Length 180;

Best Local Similarity 33.5%; Pred. No. 5.3e-18;

Matches 56; Conservative 24; Mismatches 74; Indels 13; Gaps 6;

Db 19 NPLSRNKNENKHPRESSLDEKAP--SKASQTTGGF--SQSCLP---NWIMHGKSCYLFSFS 72

Db 120 NLWVESKQYCTDMNATLLKIDNINVEYIKART--HLIR--WVLSRQKSNVEYKWEKG 175

Db 73 GNSWYSGKRKCSQIGALIKIDNSKEFEFTESQTSRINAFWIGLSRNSQEGFWPWEKG 132

Db 176 SVISENMFEPLEDDGKGM--NCAYFPHNGKMHPTFCENKHYLMQERK 219

Db 133 SAFFPNSPQYRNTVPQESLHNCAVHGSSEVYNQICNTSSYSICEKE 175

RESULT 21

US-08-772-440-31

Sequence 31, Application US/08772440

Patent No. 6046158

GENERAL INFORMATION:

APPLICANT: Arizumi, Kiyoshi

TITLE OF INVENTION: UNIQUE DENDRITIC CELL-ASSOCIATED C-TYPE

TITLE OF INVENTION: LECTINS, DECTIN-1 AND DECTIN-2; COMPOSITIONS AND USES

TITLE OF INVENTION: THERZOF

NUMBER OF SEQUENCES: 42

CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: Texas

COUNTRY: USA

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/772,440

CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: Texas

COUNTRY: USA

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/772,440

FILING DATE: CONCURRENTLY HEREWITH

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Parker, David L.

REGISTRATION NUMBER: 32,165

REFERENCE/DOCKET NUMBER: UTXD:493

TELECOMMUNICATION INFORMATION:

TELEPHONE: 512/418-3000

TELEFAX: 512/474-7577

INFORMATION FOR SEQ ID NO: 31:

SEQUENCE CHARACTERISTICS:

LENGTH: 180 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

US-08-772-440-31

Query Match 18.9%; Score 238.5; DB 3; Length 180;

Best Local Similarity 33.5%; Pred. No. 5.3e-18;

Matches 56; Conservative 24; Mismatches 74; Indels 13; Gaps 6;

Db 19 NPLSRNKNENKHPRESSLDEKAP--SKASQTTGGF--SQSCLP---NWIMHGKSCYLFSFS 72

Db 120 NLWVESKQYCTDMNATLLKIDNINVEYIKART--HLIR--WVLSRQKSNVEYKWEKG 175

Db 73 GNSWYSGKRKCSQIGALIKIDNSKEFEFTESQTSRINAFWIGLSRNSQEGFWPWEKG 132

Db 176 SVISENMFEPLEDDGKGM--NCAYFPHNGKMHPTFCENKHYLMQERK 219

Db 133 SAFFPNSPQYRNTVPQESLHNCAVHGSSEVYNQICNTSSYSICEKE 175

RESULT 22

US-08-772-440-10

Sequence 10, Application US/08772440

Patent No. 6046158

GENERAL INFORMATION:

APPLICANT: Arizumi, Kiyoshi

TITLE OF INVENTION: UNIQUE DENDRITIC CELL-ASSOCIATED C-TYPE

TITLE OF INVENTION: LECTINS, DECTIN-1 AND DECTIN-2; COMPOSITIONS AND USES

TITLE OF INVENTION: THERZOF

NUMBER OF SEQUENCES: 42

CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: Texas

COUNTRY: USA

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/772,440

FILING DATE: CONCURRENTLY HERewith  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Parker, David L.  
REGISTRATION NUMBER: 32,165  
REFERENCE/DOCKET NUMBER: UTXD-493  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 512/418-3000  
TELEFAX: 512/474-7577  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 126 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-772-440-10

Query Match 17.6%; Score 221.5; DB 3; Length 126;  
Best Local Similarity 36.0%; Pred. No. 2,2e-16;  
Matches 45; Conservative 20; Mismatches 53; Indels 7; Gaps 3;

QY 102 CDINWRYGDSYCYGFFEHNTWESKQYCTDMNATLLKIDNRIVEYIKART--HLIR-- 157  
Db 1 CLPWIMHGKSCYLFSPGNSWYSGSKRHCSQIGHLIKINSKEFEIESQTSR--NAF 60  
QY 158 WYGISRQKSNVWVKWEDGSVISENMEFELEDGKNNM--NCAYPHNGKHPTFCENKHYL 214  
Db 61 WIGLSRQSGPWGPMWEDGSAPFNSFQVRNTVPOESILHNCVHGESEVYNQICNTSYS 120

QY 215 MCEK 219  
Db 121 ICEK 125

RESULT 23  
US-08-543-246B-9  
Sequence 9, Application US/08543246B  
Patent No. 6262244  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: DNA and amino acid sequence specific for  
NUMBER OF SEQUENCES: 24  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Michael W. Glynn  
STREET: 564 Morris Avenue  
CITY: Summit,  
STATE: NJ  
COUNTRY: US  
ZIP: 07901-1027  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/543,246B  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/676,663  
FILING DATE: 28-MAR-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US92/02469  
FILING DATE: 27-MAR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/122,514  
FILING DATE: 24-SEP-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Kassenoft, Melvyn M.  
REGISTRATION NUMBER: 26,389  
REFERENCE/DOCKET NUMBER: 118-7704/PCT/CONT  
TELECOMMUNICATION INFORMATION:

TELEPHONE: 908-522-6927  
TELEFAX: 908-522-6955  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 216 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-543-246B-9

Query Match 16.9%; Score 211.5; DB 3; Length 216;  
Best Local Similarity 29.0%; Pred. No. 5.8e-15;  
Matches 51; Conservative 35; Mismatches 57; Indels 33; Gaps 7;

QY 48 LVALGIVSWQGRNYLDENENRTGTLQDLAKPCQYVWQSEIKGTFKHKSCPCDTNMR 107  
Db 68 IIVWALWSAVFLNLS-----FNQEV--QIPLETSEY---CGCPCKNWT 104

QY 108 YVGDSCYGFPRHLTWESKQYCTDMNATLLKTI---DNRNIVYIKARTHLIPWVGLSRQ 164  
Db 105 CYKNCYQFFDESKMYESQASCMQASILKYKSKEDQDLKTVS---YHMKGLVHI 160

QY 165 KSNVWVKWEDGSVISENMEFELEDGKNNMCA-YFHNGKHPTFCENKHYLMCEK 219  
Db 161 PTNGSWQWEDGSLSPNLLTILIEWKRG--DCALYASSFGYIENGCTPTNTYICMR 214

RESULT 24  
US-08-543-246B-24  
Sequence 24, Application US/08543246B  
Patent No. 6262244  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: DNA and amino acid sequence specific for  
NUMBER OF SEQUENCES: 24  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Michael W. Glynn  
STREET: 564 Morris Avenue  
CITY: Summit,  
STATE: NJ  
COUNTRY: US  
ZIP: 07901-1027  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/543,246B  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/676,663  
FILING DATE: 28-MAR-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US92/02469  
FILING DATE: 27-MAR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/122,514  
FILING DATE: 24-SEP-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Kassenoft, Melvyn M.  
REGISTRATION NUMBER: 26,389  
REFERENCE/DOCKET NUMBER: 118-7704/PCT/CONT  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 908-522-6927  
TELEFAX: 908-522-6955  
INFORMATION FOR SEQ ID NO: 24:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 216 amino acids  
TYPE: amino acid  
STRANDEDNESS:

```

;
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: C-terminal
; US-08-543-246B-24

Query Match
Best Local Similarity 16.8%; Score 211.5; DB 3; Length 216;
Best Local Similarity 29.0%; Pred. No. 5.8e-15;
Matches 51; Conservative 35; Mismatches 57; Indels 33; Gaps 7;

QY 48 IVALGIVSMQRYNYQDENERTGTQLQAKRFQCYVVKQSEIKTEGHCSCPDITWR 107
DB 68 IIMVAIMSAVFLNSL-----FNGEV--QIPLESTY---CGPCPKWMI 104
QY 108 YYGDSYCYGFPFHNLTWESKQCYCTDMNATLLKTI--DNRNIVETIKARTHLIRWGLSRQ 164
DB 105 CYKNNCYQFPDESKWVYESQASCMQSNASLLKVKYSKEQDCLKLVKS----YHMMGLVHI 160
QY 165 KSNVWKWEDSGSVISENFBFLDEKGMNCA-YHNGKAFPTFCNKHYLMCKERK 219
DB 161 PTNGSMQWEDSGILSPNLLITIEQKG--DCALYASSFKGYIENGSTPTNTYICMQR 214

RESULT 25
US-08-543-246B-20
; Sequence 20, Application US/08543246B
; Patent No. 6262244
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: DNA and amino acid sequence specific for
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Michael W. Glynn
; ADDRESS: No. 6262244artis Corporation
; STREET: 564 Morris Avenue
; CITY: Summit,
; STATE: NJ
; COUNTRY: US
; ZIP: 07901-1027
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PC-DOS/MS-DOS
; CURRENT APPLICATION DATA:
; FILING DATE: US/08/543,246B
; APPLICATION NUMBER:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/676,663
; FILING DATE: 28-MAR-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/02469
; FILING DATE: 27-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/122,514
; FILING DATE: 24-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Kassenoiff, Melvyn M.
; REGISTRATION NUMBER: 26,389
; REFERENCE/DOCKET NUMBER: 118-7704/PCT/CONT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-522-6927
; TELEFAX: 908-522-6955
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 134 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
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;
; ANTI-SENSE: NO
; FRAGMENT TYPE: C-terminal
; US-08-543-246B-20

Query Match
Best Local Similarity 16.5%; Score 208; DB 3; Length 134;
Best Local Similarity 32.8%; Pred. No. 7.1e-15;
Matches 41; Conservative 29; Mismatches 45; Indels 10; Gaps 4;

QY 99 CSPDITWRYYGDSYCYGFPFHNLTWESKQCYCTDMNATLLKTI--DNRNIVETIKARTHL 155
DB 14 CGPCPKWICVKNKCYQFPDESKWVYESQASCMQSNASLLKVKYSKEQDCLKLVKS---- 69
QY 156 IRWVGLSRQKSNVWKWEDSGSVISENFBFLDEKGMNCA-YHNGKAFPTFCNKHYL 214
DB 70 YHMMGLVHIPTNGSMQWEDSGILSPNLLITIEQKG--DCALYASSFKGYIENGSTPTNTY 127
QY 215 MCKERK 219
DB 128 ICWOR 132

RESULT 26
US-08-690-095-9
; Sequence 9, Application US/08690095
; Patent No. 5782648
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Au-Young, Janice
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/690,095
; FILING DATE: Filed Herewith
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PP-0110 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 179 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; LIBRARY: Genbank
; CLONE: 1098617
; US-08-690-095-9

Query Match
Best Local Similarity 15.5%; Score 195.5; DB 1; Length 179;
Best Local Similarity 24.6%; Pred. No. 2.4e-13;
Matches 48; Conservative 37; Mismatches 79; Indels 31; Gaps 6;

QY 30 WRVMAILLILICGVAVGVVALGIWSVMQRNYQDENERTGTQLQAKRFQCYVVKQSE 89
DB 9 WRLISGTIGICLSTL--NATLG-----LTKNSFTKLSIEPAF 44
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QY 146 VBIKARTHLIRWVGLSRKSNVWKMEDGVSISENMFELIDGKNNVC-AVFENGKH 204
Db 105 LDFWSS-SQGFYWIGLSYSEBHTALWENGALSQLPSEET-FNTQCIAYNNENVAL 162
QY 205 PFCENKHVLMCEK 219
Db 163 DECEDXRYTCKOO 177

RESULT 27
US-08-650-578-2
Sequence 2, Application US/08650578
Patent No. 5811284
GENERAL INFORMATION:
APPLICANT: Chang, Chiwen
APPLICANT: Aramburu Beltian, Jose
APPLICANT: Lopez-Botet, Miguel
APPLICANT: Phillips Jr., Joseph H.
APPLICANT: Lantier, Lewis L.
TITLE OF INVENTION: Purified Mammalian NK Antigens and
NUMBER OF INVENTION: Related Reagents
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESS: DNAX Research Institute
STREET: 901 California Avenue
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/650,578
FILING DATE:
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/175,339
FILING DATE: 29-DEC-1993
ATTORNEY/AGENT INFORMATION:
NAME: Child, Edwin P.
REGISTRATION NUMBER: 34,090
REFERENCE/DOCKET NUMBER: DX0391
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-852-9196
TELEFAX: 415-496-1200
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 179 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-650-578-2

Query Match 15.5%; Score 195.5; DB 2; Length 179;
Best Local Similarity 24.6%; Pred. No. 2,4e-13;
Matches 48; Conservative 37; Mismatches 79; Indels 3.; Gaps 6

QY 30 MIVMALILHLILCVGMVGVGVALGIMVGMQNTIGDENENKRTGLQGLAKFCQYVYKQSE 89
Db 9 WRLISGTIGLITLSTL--NATIGI-----LKNSTFLDSTEPNV 44
QY 90 LKG-----TFKGHKCSFCDTNMRYGDSYGFPRHNLTWEESSKQYCTDNANALTKIDNNI 145
Db 45 TPGVNIEDKSDCCSCQGEKXWYGRNCVCFISSEQKTMWESRHLCASQSSLLQLQNTDE 104
QY 146 VBIKARTHLIRWVGLSRKSNVWKMEDGVSISENMFELIDGKNNVC-AVFENGKH 204
Db 105 LDFWSS-SQGFYWIGLSYSEBHTALWENGALSQLPSEET-FNTQCIAYNNENVAL 162
QY 205 PFCENKHVLMCEK 219
Db 163 DECEDXRYTCKOO 177

146 VBIKARTHLIRWVGLSRKSNVWKMEDGVSISENMFELIDGKNNVC-AVFENGKH 204
105 LDFWSS-SQGFYWIGLSYSEBHTALWENGALSQLPSEET-FNTQCIAYNNENVAL 162
205 PFCENKHVLMCEK 219
163 DECEDXRYTCKOO 177

```

[illegible]

```
RESULT 29
US-09-113-788-3
; Sequence 3, Application US/09113788
; Patent No. 5969104
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Goli, Surya K.
; APPLICANT: Hillman, Jennifer L.
; TITLE OF INVENTION: NOVEL HUMAN C-TYPE LECTIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/113,788
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/688,342
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0095-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-845-4166
; TELEFAX: 415-855-0555
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 179 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; LIBRARY: Genbank
; CLONE: 1098616
; US-09-113-788-3

Query Match      15.5%; Score 195.5; DB 2; Length 179;
Best Local Similarity 24.6%; Pred. No. 2.4e-13;
Matches 48; Conservative 37; Mismatches 79; Indels 31; Gaps 6;

QY 30 WRVVALILILICGVNVGLVALGIWSVQGRNYLQDENENRTGLLOLAKRFQCYVYQSE 89
D 9 WRLISGLIGLICSL--MATLGI-----LKNSTKLSIPAF 44
QY 90 LKG---TFKGHKSPCDTWRRYYGDCYGFRRNLTWESKQYCTDMATLLKIDNRNI 145
D 45 TPGENIELQSDSCSCQEKWVGRCYCFISSQKTNESRHLCAQSKSLQLQNTDE 104
QY 146 VEYIKARTHLIRWYGLSRQKSNVWKWEDSVISENMFPLEDGKNNNC-AYFHNGKMH 204
D 105 LDFWSS-SQGFYWGLSYSESHITWIMWENSALSQYLFPSFET-FNTNCAIYVNPNGAL 162
QY 205 PTFCENKHYLMCEK 219
D 163 DESCEDKRRYICKQ 177

RESULT 30
US-09-113-789-9
; Sequence 9, Application US/09113789
```

```
; Patent No. 6034219
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Au-Young, Janice
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/113,789
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/690,095
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0110 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-845-4166
; TELEFAX: 415-855-0555
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 179 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; LIBRARY: Genbank
; CLONE: 1098617
; US-09-113-789-9

Query Match      15.5%; Score 195.5; DB 3; Length 179;
Best Local Similarity 24.6%; Pred. No. 2.4e-13;
Matches 48; Conservative 37; Mismatches 79; Indels 31; Gaps 6;

QY 30 WRVVALILILICGVNVGLVALGIWSVQGRNYLQDENENRTGLLOLAKRFQCYVYQSE 89
D 9 WRLISGLIGLICSL--MATLGI-----LKNSTKLSIPAF 44
QY 90 LKG---TFKGHKSPCDTWRRYYGDCYGFRRNLTWESKQYCTDMATLLKIDNRNI 145
D 45 TPGENIELQSDSCSCQEKWVGRCYCFISSQKTNESRHLCAQSKSLQLQNTDE 104
QY 146 VEYIKARTHLIRWYGLSRQKSNVWKWEDSVISENMFPLEDGKNNNC-AYFHNGKMH 204
D 105 LDFWSS-SQGFYWGLSYSESHITWIMWENSALSQYLFPSFET-FNTNCAIYVNPNGAL 162
QY 205 PTFCENKHYLMCEK 219
D 163 DESCEDKRRYICKQ 177

RESULT 31
US-09-111-470-10
; Sequence 10, Application US/09111470
; Patent No. 6277959
; GENERAL INFORMATION:
; APPLICANT: Valadeau, Jency
; APPLICANT: Ravel, Odile
; APPLICANT: Bates, Elizabeth E.M.
```



APPLICATION NUMBER: 08/688,342  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Billings, Lucy J.  
 REGISTRATION NUMBER: 36,749  
 REFERENCE/DOCKET NUMBER: PR-0095-1 CIP  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-855-0555  
 TELEFAX: 415-845-4166  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 292 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 IMMEDIATE SOURCE:  
 LIBRARY: GenBank  
 CLONE: 1235724  
 US-09-113-788-4

Query Match 15.2%; Score 191.5; DB 2; Length 292;  
 Best Local Similarity 28.5%; Pred. No. 1.3e-12;  
 Matches 48; Conservative 32; Mismatches 61; Indels 27; Gaps 8;

QY 73 LQQLAKRFQYV--KQSELKGFKGHKSPCDTNRWYVYSGCYGFPRHNLWESK 127  
 DB 130 VQDLKLTLCQVATLNNSEBASTBT-----C--CPVNWVHQDSCYFSGSGMSMAFAE 182  
 QY 128 QYCTDMATLLKIDNRNIVEYI-KARTHLIRWGLSRQKSNVWKMEDGSVISNMFEFL 186  
 DB 183 KYCQKNAHLVINSREQNFVQKYLGSAYTWMGLSDPEG--AWKWDGTDYATG-FQNW 239  
 QY 187 EDGK-----GNMNCAYFH-NGKMHPTFCNKHYLMCEKRAGMT 223  
 DB 240 KPGQPDWQGHGSGEDCAHFHPDGRWMDVCCQPRYHWCEAGLGQT 287

RESULT 34  
 US-09-111-470-4  
 Sequence 4, Application US/09111470  
 Patent No. 6277959  
 GENERAL INFORMATION:  
 APPLICANT: Valladeau, Jenny  
 APPLICANT: Ravel, Odile  
 APPLICANT: Bates, Elizabeth E.M.  
 APPLICANT: Ford, John  
 APPLICANT: Saeland, Sem  
 APPLICANT: Lebecque, Serge J.E.  
 TITLE OF INVENTION: Mammalian Membrane Protein Genes;  
 TITLE OF INVENTION: Related Reagents  
 NUMBER OF SEQUENCES: 11  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: DNA Research Institute  
 STREET: 901 California Avenue  
 CITY: Palo Alto  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94304-1104  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/111,470  
 FILING DATE: 08-JUL-1998  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 60/053,080  
 FILING DATE: 09-JUL-1997  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ching, Edwin F.

REGISTRATION NUMBER: 34,090  
 REFERENCE/DOCKET NUMBER: SF0695  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (650) 852-9196  
 TELEFAX: (650) 496-1200  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 316 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-111-470-4

Query Match 15.1%; Score 190; DB 3; Length 316;  
 Best Local Similarity 29.1%; Pred. No. 2.1e-12;  
 Matches 48; Conservative 30; Mismatches 63; Indels 24; Gaps 8;

QY 73 LQQLAKRFQYV--KQSELKGFKGHKSPCDTNRWYVYSGCYGFPRHNLWESKQYC 130  
 DB 157 VQDLKLTLCQVATLNNASTBT-----C--CPVNWVHQDSCYFSGSGMSMAFAEKYC 209  
 QY 131 TDMMATLLKIDNRNIVEYI-KARTHLIRWGLSRQKSNVWKMEDGSVISNMFEFLBDG 189  
 DB 210 QLKNAHLVINSREQNFVQKYLGSAYTWMGLSDPEG--AWKWDGTDYATG-FQNWTEG 266  
 QY 190 K-----GNMNCAYFH-NGKMHPTFCNKHYLMCEKRAGMT 223  
 DB 267 QPDWQGHGSGEDCAHFHPDGRWMDVCCQPRYHWCEAGLGQT 311

RESULT 35  
 US-08-722-126A-10  
 Sequence 10, Application US/08722126A  
 Patent No. 6034227  
 GENERAL INFORMATION:  
 APPLICANT: PECHT, Israel  
 APPLICANT: GUTMANN, Marcelo D.  
 APPLICANT: TAL, Michael  
 TITLE OF INVENTION: A DNA MOLECULE ENCODING A MAST CELL  
 TITLE OF INVENTION: FUNCTION-ASSOCIATED ANTIGEN (MAPA)  
 NUMBER OF SEQUENCES: 20  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.  
 STREET: 419 Seventh Street N.W., Ste. 300  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: UNITED STATES OF AMERICA  
 ZIP: 20004  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/722,126A  
 FILING DATE: 08-OCT-1996  
 CLASSIFICATION: 536  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US95/04258  
 FILING DATE: 06-APR-1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 11,109257  
 FILING DATE: 08-APR-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: BROWDY, Roger L.  
 REGISTRATION NUMBER: 25,618  
 REFERENCE/DOCKET NUMBER: PECHT=1A  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202) 628-5197  
 TELEFAX: (202) 737-3528  
 INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 129 amino acids

TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-722-126A-10

Query Match 14.9%; Score 187.5; DB 3; Length 129;  
Best Local Similarity 31.8%; Pred. No. 1.1e-12;  
Matches 41; Conservative 22; Mismatches 53; Indels 13; Gaps 3;

QY 102 CDTWRYGDSYCGPFRHNLTFWESKOYCTDMNATLLKIDRNIVEY-IRKATHLIRWVG 160  
DB 1 CPVNWVERGSGCYTFRSDGLTWALADQYCCLENNHILVINSREDCDVVERKSGFHTNIG 60  
QY 161 LSRKSNVWKMEDGVSISENM-----FEFLDGGKNNMCAYFHNGKMHPTFCEN 210  
DB 61 LTDRDGS--WKWVDGTDRSYRNWMAFTQPDNWQHGEGGECALILSDGHWNDNFCQQ 118  
QY 211 KHYLMCEK 219  
DB 119 VNRWVCEK 127

RESULT 36  
PCT-US95-04258-10  
Sequence 10, Application PC/TUS9504258  
GENERAL INFORMATION:

APPLICANT:  
TITLE OF INVENTION: A DNA MOLECULE ENCODING A MAST CELL  
TITLE OF INVENTION: FUNCTION-ASSOCIATED ANTIGEN (MAFA)  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: BROWDY AND NEWMARK  
STREET: 419 Seventh Street, N.W., Suite 300  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/04258  
FILING DATE: 06-APR-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: IL 109257  
FILING DATE: 08-APR-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: BROWDY, Roger L.  
REGISTRATION NUMBER: 25,618  
REFERENCE/DOCKET NUMBER: PCHT-1 PCT  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-628-5197  
TELEFAX: 202-737-3528  
TELEX: 248633  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 129 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US95-04258-10

Query Match 14.9%; Score 187.5; DB 5; Length 129;  
Best Local Similarity 31.8%; Pred. No. 1.1e-12;  
Matches 41; Conservative 22; Mismatches 53; Indels 13; Gaps 3;

QY 102 CDTWRYGDSYCGPFRHNLTFWESKOYCTDMNATLLKIDRNIVEY-IRKATHLIRWVG 160  
DB 1 CPVNWVERGSGCYTFRSDGLTWALADQYCCLENNHILVINSREDCDVVERKSGFHTNIG 60

QY 161 LSRKSNVWKMEDGVSISENM-----FEFLDGGKNNMCAYFHNGKMHPTFCEN 210  
DB 61 LTDRDGS--WKWVDGTDRSYRNWMAFTQPDNWQHGEGGECALILSDGHWNDNFCQQ 118  
QY 211 KHYLMCEK 219  
DB 119 VNRWVCEK 127

RESULT 37  
US-08-722-126A-5  
Sequence 5, Application US/08722126A  
Patent No. 6034227

GENERAL INFORMATION:  
APPLICANT: PCHT, Israel  
APPLICANT: GUTHMANN, Marcelo D.  
APPLICANT: TAL, Michael  
TITLE OF INVENTION: A DNA MOLECULE ENCODING A MAST CELL  
TITLE OF INVENTION: FUNCTION-ASSOCIATED ANTIGEN (MAFA)  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: BROWDY AND NEWMARK, P.L.L.C.  
STREET: 419 Seventh Street N.W., Ste. 300  
CITY: Washington  
STATE: D.C.  
COUNTRY: UNITED STATES OF AMERICA  
ZIP: 20004  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/722,126A  
FILING DATE: 08-OCT-1996  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/04258  
FILING DATE: 06-APR-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: IL 109257  
FILING DATE: 08-APR-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: BROWDY, Roger L.  
REGISTRATION NUMBER: 25,618  
REFERENCE/DOCKET NUMBER: PCHT-1A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 628-5197  
TELEFAX: (202) 737-3528  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 128 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-722-126A-5

Query Match 13.9%; Score 175.5; DB 3; Length 188;  
Best Local Similarity 26.9%; Pred. No. 3.8e-11;  
Matches 61; Conservative 32; Mismatches 83; Indels 51; Gaps 12;

QY 1 MODEGYTILNITKTRKPAIVSGPASFWRVMAILLILCVGMVGLVALGIMVMOGN 60  
DB 1 MADNSIYITLTL-----PAPRPVQDSR--WKYKA-VLHRPCVSYIV-WVALGLITVLIMS 52  
QY 61 YLQDENENRTGLTQOLARFCQYVYKQSELKGTFGKHCSPDITWRYGDSYCGPFRHNL 120  
DB 53 LLYVQRTLCGGS-----RG-FWCSQCSRCZPNLMMNGSHCYFPMEX 93  
QY 121 LTFWESKOYCTDMNATLLKIDRNIVEY-IRKATHLIRWVGSLSRKSNVWKMEDG 175  
DB 94 EDMNSLKFACADKSHLITFPDNGVNLFGYVGEDEF--WIGL--RDIDGWRMEDOP 147



QY 176 ----SVISNNMFELEDGKNNKCAFHNGKMHPTCEKXKYLACER 215  
Db 148 ALSLSLNSVQ-----KCGTHRCGLHASSCEVALQWICER 185

## RESULT 38

PCT-US95-04258-5  
Sequence 5, Application PC/TUS9504258  
GENERAL INFORMATION:

APPLICANT:  
TITLE OF INVENTION: A DNA MOLECULE ENCODING A MAST CELL  
TITLE OF INVENTION: FUNCTION-ASSOCIATED ANTIGEN (NAFA)  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:

ADDRESSEE: BROWDY AND NEWMARK  
STREET: 419 Seventh Street, N.W., Suite 300  
CITY: Washington

STATE: D.C.  
COUNTRY: USA  
ZIP: 20004

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentln Release #1.0, Version #1.30 (EPO)  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/04258  
FILING DATE: 06-APR-1995  
PRIORITY APPLICATION DATA:

APPLICATION NUMBER: IL 109257  
FILING DATE: 08-APR-1994  
ATTORNEY/AGENT INFORMATION:

NAME: BROWDY, Roger L.  
REGISTRATION NUMBER: 25,618  
REFERENCE/DOCKET NUMBER: PECT=1 PCT

TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-628-5197  
TELEFAX: 202-737-3528

TELEX: 248633  
INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:  
LENGTH: 188 amino acids  
TYPE: amino acid

TOPOLOGY: linear  
MOLECULAR TYPE: protein

PCT-US95-04258-5

Query Match 13.8%; Score 175.5; DB 5; Length 188;  
Best Local Similarity 26.9%; Pred. No. 3.8e-11;  
Matches 61; Conservative 33; Mismatches 83; Indels 51; Gaps 12;

QY 1 MODEGYITNITKRPALVSGPASFWRVMAIIILICVGNVGLVGLTWSVQNRN 60  
Db 1 MAONSIYSTDEL---PAAPRVQDSDR--WKVKA-VLHAPCVSYLV-MVALGLITVLIMS 52

QY 61 YLDENENRRTGLQQLAKRCQYVYVQSELKGTGFKGKSPQTNMWTYDSCVGFPRHN 120  
Db 53 LLLYORTLCGS-----KG-FMCSQCSRCPLWLRNCSHCYFPMER 93

QY 121 LTVESKQCTDMNATLTKI-DNENI---VEYIKARTHLIRWYALSRKSNVYKMGEDG- 175  
Db 94 RDMNSSLKFGADKSHLLTFPDNGVNLFPQYVGEDFY---WIGL---RIDGWRMDGP 147

QY 176 ----SVISNNMFELEDGKNNKCAFHNGKMHPTCEKXKYLACER 218  
Db 148 ALSLSLNSVQ-----KCGTHRCGLHASSCEVALQWICER 185

RESULT 39  
US-08-690-095-8  
Sequence 8, Application US/08690095  
Patent No. 5792648

## GENERAL INFORMATION:

APPLICANT: Hillman, Jennifer L.  
APPLICANT: Au-Yang, Janice

APPLICANT: Goli, Surya K.  
TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN  
NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive

CITY: Palo Alto  
STATE: CA

COUNTRY: U.S.  
ZIP: 94304

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ Version 1.5  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/690,095  
FILING DATE: Filed Herewith

ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0110 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555

TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:  
LENGTH: 233 amino acids  
TYPE: amino acid

STRANDEDNESS: single  
TOPOLOGY: linear

MOLECULAR TYPE: peptide  
IMMEDIATE SOURCE:

LIBRARY: GenBank  
CLONE: 35057

US-08-690-095-8

Query Match 13.8%; Score 174; DB 1; Length 233;  
Best Local Similarity 23.9%; Pred. No. 7.5e-11;  
Matches 44; Conservative 28; Mismatches 86; Indels 26; Gaps 4;

QY 36 ILLICVGVVGVVGLVGLTWSVQNRNLTQQLAKRCQYVYVQSELKGTGFK 95  
Db 75 ILGLITLMAVYVTL---VLPSTLQIRANNSLNTFTQ-----K 112

QY 96 GAKCSPQDNNWRYGDSQYGFPRHNLTVESKQCTDMNATLTKIDRNIVEYIKARTHL 155  
Db 113 ARQCHQCPENITYSQYIGKERTWESLACTSKXSLSLSTNEEMKRLSLSP- 171

QY 156 IRWVGISLRKSNVYKMGEDGVSISNVFPELEDGKNNKCAFHNGKMHPTCEKXKYL 215  
Db 172 SSMIGVFRNSHPHWTKNGLAFKH--EIKSDNALNCAVQLQVRLKSAQCGSSIIYH 228

QY 216 CERK 219  
Db 229 CRRK 232

RESULT 40  
US-09-113-789-8  
Sequence 8, Application US/09113789  
Patent No. 6034219

GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Au-Young, Janice

APPLICANT: Goli, Surya K.  
TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN  
NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.



```

; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/543,246B
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/676,663
; FILING DATE: 28-MAR-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/02469
; FILING DATE: 27-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/122,514
; FILING DATE: 24-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Kasenoff, Melvyn M.
; REGISTRATION NUMBER: 26,389
; REFERENCE/DOCKET NUMBER: 118-7704/PCT/CONT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-522-6927
; TELEFAX: 908-522-6955
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 233 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: C-terminal
; US-08-543-246B-21

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```

Query Match      13.8%; Score 174; DB 3; Length 233;
Best Local Similarity 23.9%; Pred. No. 7.5e-11;
Matches 44; Conservative 28; Mismatches 86; Indels 26; Gaps 4;

```

```

QY 36 ILILICGMVYGVVALGIWISWQCRNYLQDENENRTGLTQQLAKRFQCYVVKOSLKTGFK 95
DB 75 ILGLICILIMASVTTI--VTPSTLIQRHNSSLNTRQ-----K 112
QY 96 GHKSPCDTMRYYGDSYGFPRHNLTWBESKQYCTDMANATLKTIDNRNIVEYIKARTHL 155
DB 113 ARHCGHCPBEWITYSNSCYIIGKERRTWESILACTSNSSLTIDRBEKKFLSTISP- 171
QY 156 IRWVGLSRQSKSNVWKWEDGVSISENMFPELEDGKANNCAVFNHGKMPFCENKRYLM 215
DB 172 SSWIGVFRNSSHHPWTNGLAFKH---EKDSDAELNCAVLQVNRILKSAQCGSIIYH 228
QY 216 CERK 219
DB 229 CKHK 232

```

```

RESULT 43
US-08-690-095-6
; Sequence 6, Application US/08690095
; Patent No. 5792548
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Au-Young, Janice
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Inocyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette

```

```

; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/690,095
; FILING DATE: Filed Herewith
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy C.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0110 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 231 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 35061
; US-08-690-095-6

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```

Query Match      13.2%; Score 167; DB 1; Length 231;
Best Local Similarity 22.8%; Pred. No. 4.3e-10;
Matches 43; Conservative 32; Mismatches 86; Indels 28; Gaps 4;

```

```

QY 31 RNVALILILICGVGVVALGIWISWQCRNYLQDENENRTGLTQQLAKRFQCYVVKOSL 90
DB 70 KLTAVVGLIC----IYVATVLTITLIPFLQNNSSPVTRQ----- 109
QY 91 KGTFGKHGSPCDTMRYYGDSYGFPRHNLTWBESKQYCTDMANATLKTIDNRNIVEYIK 150
DB 110 ---KARHCHCEBEWITYSNSCYIIGKERRTWESILACTSNSSLTIDRBEKKFL- 164
QY 151 ARTHLIRWVGLSRQSKSNVWKWEDGVSISENMFPELEDGKANNCAVFNHGKMPFCEN 210
DB 165 ASLTPSSWIGVFRNSSHHPWTNGLAFKH---KIDSDAELNCAVLQVNRILKSAQCGS 221
QY 211 KHYLMCERK 219
DB 222 SMTHCHKH 230

```

```

RESULT 44
US-09-113-789-6
; Sequence 6, Application US/09113789
; Patent No. 6034219
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Au-Young, Janice
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN MACROPHAGE ANTIGEN
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Inocyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/113,789
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/690,095

```



NAME: Kassenoﬀ, Melvyn M.  
REGISTRATION NUMBER: 26,389  
REFERENCE/DOCKET NUMBER: 118-7704/PCT/CONT  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 908-522-6927  
TELEFAX: 908-522-6955  
INFORMATION FOR SEQ ID NO: 23:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 231 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FRAGMENT TYPE: C-terminal  
US-08-543-246B-23

Query Match 13.8%; Score 167; DB 3; Length 231;  
Best Local Similarity 22.8%; Pred. No. 4.3e-10;  
Matches 43; Conservative 32; Mismatches 86; Indels 28; Gaps 4;

QY 31 RVNALILLICVGVVGLVGLVSWQRYLQDENRRTGLQLAKRPGQYVVKQSEL 90  
DB 70 KLTAEVLGIGIC---IVLMAIVLTKTIVLPFLBQNNSSPNRTQ----- 109  
QY 91 KGTGKHKSPCDTNNRYGDSYGFRRNLTWESKQYCTDMATLTKIDNRNIVEYIK 150  
DB 110 ---KARHGHCPREMTYSSCYIKERRTWESLACSKSSLSIDNEEIKFL- 164  
QY 151 ARTHLRWGLSRKSNVWKMEDGSVISENPFELDGKNNMCAVEFNGKXHPTECEN 210  
DB 165 ASILPSSWIGYFRSSHHPTWTLNGLAFKH---KIKSDNAELNCAVLQVNRLSAQCGS 221  
QY 211 KYVLCERK 219  
DB 222 SMYHCKHK 230

RESULT 47  
US-09-517-605-2  
Sequence 2, Application US/09517605  
Patent No. 6391567  
GENERAL INFORMATION:  
APPLICANT: Litemat, Dan R.  
APPLICANT: Kwon, Douglas S.  
APPLICANT: van Kooyk, Yvette  
APPLICANT: Geljterbeck, Theo  
TITLE OF INVENTION: METHODS OF USING A FACILITATOR OF RETROVIRAL ENTRY INTO  
FILE REFERENCE: 1049-1-017  
CURRENT APPLICATION NUMBER: US/09/517,605  
CURRENT FILING DATE: 2000-03-02  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 404  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-517-605-2

Query Match 13.0%; Score 164.5; DB 4; Length 404;  
Best Local Similarity 23.0%; Pred. No. 1.8e-09;  
Matches 38; Conservative 37; Mismatches 79; Indels 11; Gaps 5;  
QY 71 GTLQALAKRPGQYVVKQ-SELKGTGKHKSPCDTNNRYGDSYGFRRNLTWESKQY 129  
DB 227 GELPEKSKQ-QEIIYOEITOLKAAVE-RLCHPCPWMTFFQGNCTYMSNSQPMWHDGITA 283  
QY 130 CTDMATLTKI---DNRNIVYIKARHTLIRWGLSRKSNVWKMEDGSVISENPFEL 166  
DB 284 CKEVAGQIVLVKSAEONFILOSSRSNRFTWMIJSLDNEGTQWQVWVDSILPSFYQYW 343

QY 187 EDGK-----GNMNCAYFNGKXHPTECENKXVLMCEKXKACTYQD 227  
DB 344 NRGEPNNVGBEDCBASPSSGNGWDDKCNLAKFWICKKSAASCSD 388

RESULT 48  
US-08-543-246B-17  
Sequence 17, Application US/08543246B  
Patent No. 6262244  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: DNA and amino acid sequence specific for  
TITLE OF INVENTION: natural killer cells  
NUMBER OF SEQUENCES: 24  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Michael W. Glynn  
ADDRESSEE: No. 6262244artis Corporation  
STREET: 564 Morris Avenue  
City: Summit,  
STATE: NJ  
COUNTRY: US  
ZIP: 07901-1027  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/543,246B  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/676,663  
FILING DATE: 28-MAR-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US92/02469  
FILING DATE: 27-MAR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 06/122,514  
FILING DATE: 24-SEP-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Kassenoﬀ, Melvyn M.  
REGISTRATION NUMBER: 26,389  
REFERENCE/DOCKET NUMBER: 118-7704/PCT/CONT  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 908-522-6927  
TELEFAX: 908-522-6955  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 135 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FRAGMENT TYPE: C-terminal  
US-08-543-246B-17

Query Match 13.0%; Score 164; DB 3; Length 135;  
Best Local Similarity 27.6%; Pred. No. 4.2e-10;  
Matches 35; Conservative 19; Mismatches 69; Indels 4; Gaps 2;

QY 93 TFGKHKSPCDTNNRYGDSYGFRRNLTWESKQYCTDMATLTKIDNRNIVEYIKAR 132  
DB 12 TQARHGHCPREMTYSSCYIYIKERRTWESLACSKSSLSIDNEEIKFLSTI 71  
QY 153 THLRWGLSRKSNVWKMEDGSVISENPFELDGKNNMCAVEFNGKXHPTECENKH 212  
DB 72 SP-SSWIGYFRSSHHPTWTLNGLAFKH---LIKSDNAELNCAVLQVNRLSAQCGSSI 127  
QY 213 KYVLCERK 219  
DB 128 IYHCKEK 134

## RESULT 49

US-08-543-246B-19

Sequence 19, Application US/08543246B

Patent No. 6262244

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: DNA and amino acid sequence specific for

TITLE OF INVENTION: natural killer cells

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Michael W. Glynn

ADDRESSEE: No. 6262244artis Corporation

STREET: 564 Morris Avenue

CITY: Summit,

STATE: NJ

COUNTRY: US

ZIP: 07901-1027

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/543,246B

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/676,663

FILING DATE: 28-MAR-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US92/02469

FILING DATE: 27-MAR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/122,514

FILING DATE: 24-SEP-1993

ATTORNEY/AGENT INFORMATION:

NAME: Kasseno, Melvyn M.

REGISTRATION NUMBER: 26,389

REFERENCE/DOCKET NUMBER: 118-7704/PCT/CONT

TELECOMMUNICATION INFORMATION:

TELEPHONE: 908-522-6927

TELEFAX: 908-522-6955

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:

LENGTH: 135 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ANTI-SENSE: NO

FRAGMENT TYPE: C-terminal

US-08-543-246B-19

Query Match 12.9%, Score 163, DB 3, Length 135;

Best Local Similarity 27.6%, Pred. No. 5.4e-10;

Matches 35, Conservative 19, Mismatches 69, Indels 4, Gaps 2;

QY 93 TFFKHKSPCDTNRRYYGDSYGFRRHNLTWESKQYCTDMATLTKIDNNIYVYIKAR 152  
DB 12 TQKARHCHCEBEWITYSNCTYIGKERTWESILACTSKNSLSIDNEBEIKFL-AS 70  
QY 153 THL-RWVGLSHQKSENVKWEKEDSVISENMEFLEDGKGNMCAVFNHGMHPTFCENKH 212  
DB 71 ILSSWIGVFRNSHHHPVTLNGLAFKH---KIKSDNNAELNCAVLQVNRILKSAQCGSS 127  
QY 213 YLMGERK 219  
DB 128 IYHCKHK 134

RESULT 50

US-08-543-246B-18

Sequence 18, Application US/08543246B

Patent No. 6262244

GENERAL INFORMATION:

APPLICANT:

TITLE OF INVENTION: DNA and amino acid sequence specific for

TITLE OF INVENTION: natural killer cells

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Michael W. Glynn

ADDRESSEE: No. 6262244artis Corporation

STREET: 564 Morris Avenue

CITY: Summit,

STATE: NJ

COUNTRY: US

ZIP: 07901-1027

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/543,246B

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/676,663

FILING DATE: 28-MAR-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US92/02469

FILING DATE: 27-MAR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/122,514

FILING DATE: 24-SEP-1993

ATTORNEY/AGENT INFORMATION:

NAME: Kasseno, Melvyn M.

REGISTRATION NUMBER: 26,389

REFERENCE/DOCKET NUMBER: 118-7704/PCT/CONT

TELECOMMUNICATION INFORMATION:

TELEPHONE: 908-522-6927

TELEFAX: 908-522-6955

INFORMATION FOR SEQ ID NO: 18:

SEQUENCE CHARACTERISTICS:

LENGTH: 120 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ANTI-SENSE: NO

FRAGMENT TYPE: C-terminal

US-08-543-246B-18

Query Match 12.5%, Score 158, DB 3, Length 120;

Best Local Similarity 27.3%, Pred. No. 1.6e-09;

Matches 33, Conservative 19, Mismatches 65, Indels 4, Gaps 2;

QY 99 CSQCDTNRRYYGDSYGFRRHNLTWESKQYCTDMATLTKIDNNIYVYIKAR 158  
DB 3 CGHCEBEWITYSNCTYIGKERTWESILACTSKNSLSIDNEBEIKFL-SSW 61  
QY 159 VGLSHQKSENVKWEKEDSVISENMEFLEDGKGNMCAVFNHGMHPTFCENKH 218  
DB 62 IGVFRNSHHHPVTLNGLAFKH---ELKSDNNAELNCAVLQVNRILKSAQCGSS 118  
QY 219 K 219  
DB 119 K 119

Search completed: December 3, 2003, 08:48:26

Job time : 23 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: December 3, 2003, 08:46:07 ; Search time 31. Seconds

(without alignments)  
1373.879 Million cell updates/sec

Title: US-09-903-190-97

Perfect score: 1261

Sequence: 1 MQBBDGYITLNTKPKNAV.....NKHYIMQERKAGTYNDQLP 229

Scoring table:

BioSOM62

Searched: 684280 seqs, 185983659 residues

Total number of hits satisfying chosen parameters: 684280

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing First 100 summaries

Database :

Published Applications AA:\*

1: /cgn2\_6/prodata/1/pubppa/US07\_PUBCOMB.pep:\*

2: /cgn2\_6/prodata/1/pubppa/PCR\_NEW\_PUB.pep:\*

3: /cgn2\_6/prodata/1/pubppa/US06\_NEW\_PUB.pep:\*

4: /cgn2\_6/prodata/1/pubppa/US06\_PUBCOMB.pep:\*

5: /cgn2\_6/prodata/1/pubppa/US07\_NEW\_PUB.pep:\*

6: /cgn2\_6/prodata/1/pubppa/PCTUS\_PUBCOMB.pep:\*

7: /cgn2\_6/prodata/1/pubppa/US08\_NEW\_PUB.pep:\*

8: /cgn2\_6/prodata/1/pubppa/US08\_PUBCOMB.pep:\*

9: /cgn2\_6/prodata/1/pubppa/US09\_PUBCOMB.pep:\*

10: /cgn2\_6/prodata/1/pubppa/US09\_PUBCOMB.pep:\*

11: /cgn2\_6/prodata/1/pubppa/US09C\_PUBCOMB.pep:\*

12: /cgn2\_6/prodata/1/pubppa/US09C\_PUBCOMB.pep:\*

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15: /cgn2\_6/prodata/1/pubppa/US10C\_PUBCOMB.pep:\*

16: /cgn2\_6/prodata/1/pubppa/US10C\_PUBCOMB.pep:\*

17: /cgn2\_6/prodata/1/pubppa/US10C\_PUBCOMB.pep:\*

18: /cgn2\_6/prodata/1/pubppa/US60\_NEW\_PUB.pep:\*

19: /cgn2\_6/prodata/1/pubppa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1261	100.0	229	12	US-09-903-190-97
2	1253	99.4	229	9	US-09-989-722-424
3	1253	99.4	229	9	US-09-989-723-424
4	1253	99.4	229	9	US-09-989-279-424
5	1253	99.4	229	9	US-09-989-727-424
6	1253	99.4	229	10	US-09-989-731-424
7	1253	99.4	229	10	US-09-989-732-424
8	1253	99.4	229	10	US-09-991-073-424
9	1253	99.4	229	10	US-09-990-442-424
10	1253	99.4	229	10	US-09-991-163-424
11	1253	99.4	229	10	US-09-993-604-424
12	1253	99.4	229	10	US-09-989-456-424
13	1253	99.4	229	10	US-09-989-721-424
14	1253	99.4	229	10	US-09-992-598-424
15	1253	99.4	229	10	US-09-989-293A-424

16	1253	99.4	229	10	US-09-989-735-424	Sequence 424, App
17	1253	99.4	229	10	US-09-990-444-424	Sequence 424, App
18	1253	99.4	229	10	US-09-991-181-424	Sequence 424, App
19	1253	99.4	229	10	US-09-989-730-424	Sequence 424, App
20	1253	99.4	229	10	US-09-990-436-424	Sequence 424, App
21	1253	99.4	229	10	US-09-993-687-424	Sequence 424, App
22	1253	99.4	229	11	US-09-989-734-424	Sequence 424, App
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54	1253	99.4	229	11	US-09-993-583-424	Sequence 424, App
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69	1253	99.4	229	12	US-10-140-471-522	Sequence 522, App
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84	1253	99.4	229	12	US-10-145-628-522	Sequence 522, App
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86	1253	99.4	229	12	US-10-145-633-522	Sequence 522, App
87	1253	99.4	229	12	US-10-145-746-522	Sequence 522, App
88	1253	99.4	229	12	US-10-145-748-522	Sequence 522, App
			229	12	US-10-145-823-522	Sequence 522, App
			229	12	US-10-145-826-522	Sequence 522, App

89 1253 99.4 229 12 US-10-145-870-522 Sequence 522, App  
90 1253 99.4 229 12 US-10-145-876-522 Sequence 522, App  
91 1253 99.4 229 12 US-10-145-959-522 Sequence 522, App  
92 1253 99.4 229 12 US-10-146-724-522 Sequence 522, App  
93 1253 99.4 229 12 US-10-146-725-522 Sequence 522, App  
94 1253 99.4 229 12 US-10-146-795-522 Sequence 522, App  
95 1253 99.4 229 12 US-10-147-495-522 Sequence 522, App  
96 1253 99.4 229 12 US-10-147-501-522 Sequence 522, App  
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98 1253 99.4 229 12 US-10-147-506-522 Sequence 522, App  
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100 1253 99.4 229 12 US-10-147-510-522 Sequence 522, App

## ALIGNMENTS

RESULT 1  
US-09-903-190-97  
Sequence 97, Application US/09903190  
Publication No. US20030162176A1  
GENERAL INFORMATION:  
APPLICANT: Dumas, Wilne Edwards, Jean-Baptiste  
APPLICANT: Duclet, Aymeric  
APPLICANT: Bouguetere, Lydie  
TITLE OF INVENTION: Complementary DNAs  
FILE REFERENCE: GENSET, 021A  
CURRENT FILING DATE: 2001-07-11  
PRIOR APPLICATION NUMBER: US/09/903,190  
PRIOR FILING DATE: 1999-02-09  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/074,121  
PRIOR FILING DATE: 1998-02-09  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/081,563  
PRIOR FILING DATE: 1998-04-13  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/096,116  
PRIOR FILING DATE: 1998-08-10  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/099,273  
PRIOR FILING DATE: EARLIER FILING DATE: 1998-10-04  
NUMBER OF SEQ ID NOS: 182  
SOFTWARE: Patent, pm  
SEQ ID NO 97  
LENGTH: 229  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SIGNAL  
LOCATION: -47...-1  
US-09-903-190-97

Query Match 100.0%; Score 1261; DB 12; Length 229;  
Best Local Similarity 100.0%; Pred. No. 6.3e-120;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 121 LTVESKQYCTDMNATLLKIDKRNIVVEYIKATTHIRWVGISROKSNVEWKKEDSDVISE 180  
QY 181 NMFEELEGGKRWKCAVYENGKAPTEPCNKIYLMCCERAKGWKXVDQLP 229  
DB 181 NMFEELEGGKRWKCAVYENGKAPTEPCNKIYLMCCERAKGWKXVDQLP 229

RESULT 2  
US-09-989-722-424

Sequence 424, Application US/09989722  
Patent No. US20020072067A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertlisen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gueney, Austin L.  
APPLICANT: Kijavlin, Ivar C.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Peoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C63  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: US/09/989,722  
PRIOR FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
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PRIOR APPLICATION NUMBER: 60/087759  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-03  
PRIOR APPLICATION NUMBER: 60/088021  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088025  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088026  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088028  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088029  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088030  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088033



PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088326  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088167  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088202  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088212  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088217  
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PRIOR APPLICATION NUMBER: 60/088655  
PRIOR FILING DATE: 1998-06-09  
PRIOR APPLICATION NUMBER: 60/088734  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088738  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088742  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088810  
PRIOR FILING DATE: 1998-06-10  
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PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 9; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4.1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 1 MODEDGYTTNIIKIRKPAIVSVGPASSFWFVMAIIILICGVAVGVALGIMSVORN 60  
Qy 61 YLODENENRTGTLOOLAKFCQYVVKOSELKGTRGKHCSPDITNWRYYGDSCYGFFHN 120  
Db 61 YLODENENRTGTLOOLAKFCQYVVKOSELKGTRGKHCSPDITNWRYYGDSCYGFFHN 120  
Qy 121 LTWESKQYCTDMNATTLIKINRNIVETKARTHLIRVWGSROKSNFVWVKWEDSVYS 180  
Db 121 LTWESKQYCTDMNATTLIKINRNIVETKARTHLIRVWGSROKSNFVWVKWEDSVYS 180  
Qy 181 NMFEFLEDGKGNMCAVFNHNGKAPTEPCENKRYLZMCEKAKMTKVDLP 229

DB 181 NMEPFLDGMKNNMCAIFHNGKMEPTCEKXHYLMCRKAGYTKVDLP 229

## RESULT 3

US-09-989-723-424

Sequence 424 Application US/09989723

Patent No. US20020072052A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnovers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gertlesen, Macy E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kijavich, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zhen

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE REFERENCE: P2730P1C62

CURRENT APPLICATION NUMBER: US/09/989,723

CURRENT FILING DATE: 2001-11-19

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

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PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 9; Length 229;  
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Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 61 YLQDENENRTGTLQCLARPCQYVYKQSELKTFEGHCKSPEDTWMRYGSDCYCFEHHN 120  
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QY 181 NMEFLEDGKNNMCAYFHHGKHPTECNKHYLMGCRGAMTKVDLP 229  
DB 181 NMEFLEDGKNNMCAYFHHGKHPTECNKHYLMGCRGAMTKVDLP 229

RESULT 4  
US-09-989-279-424  
Sequence 424, Application US/09989279  
Patent No. US20020072496A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Bostein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dar L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaudi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Nadler, Mary A.  
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APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Agilis Encoding the Same  
FILE REFERENCE: P2730P1C56  
CURRENT APPLICATION NUMBER: US/09/989,279  
CURRENT FILING DATE: 2001-11-19  
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Query Match 99.4% Score 1253; DB 9; Length 229;

Best Local Similarity 99.6% Pred. No. 4.1e-119; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEBQYITLTKIKRKLVSVPASSFWKRYMALILILCVGKYVGLVAGTMSYXORN 60  
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D 121 LTMESKQYCTDMKATLTKIDNENIYERIKARTHLIRWGLSRQKSNWMEWEGSYISE 180  
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D 181 NMEFLDQKGNMCAVFNHGXMPFPCENKHYLMCRKXAGMTXVDLP 229  
RESULT 5  
US-09-989-727-424  
Sequence 424, Application US/09989727  
Patent No. US20020072497A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Deenoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerltsen, Mary B.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Paoli, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Thomas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OR INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C65  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: US/09/989,727  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
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PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
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PRIOR APPLICATION NUMBER: 60/087106  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 9; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGYITLTK-KTRKPAIVSVGPASSFWRRVMAILLILLCVMYVGLVAGLWMSYMRN 60  
DB 1 MODEGYITLTK-KTRKPAIVSVGPASSFWRRVMAILLILLCVMYVGLVAGLWMSYMRN 60  
QY 61 YQDENENRTGTLQOLAKRPGQYVVKQSELKGFQKHKSPCDTNMRYTGDSCTGFRRN 120  
DB 61 YQDENENRTGTLQOLAKRPGQYVVKQSELKGFQKHKSPCDTNMRYTGDSCTGFRRN 120  
QY 121 LTWESKQYCTDMNATILKIDNNIVEYIKARTHLIRWGLSRQKSENYWKMDGYSIYS 180  
DB 121 LTWESKQYCTDMNATILKIDNNIVEYIKARTHLIRWGLSRQKSENYWKMDGYSIYS 180  
QY 181 NMEFPLEDGKNNKCAFFHNGXHPFCENKHYLMCEBPAQTKVDLP 229  
DB 181 NMEFPLEDGKNNKCAFFHNGXHPFCENKHYLMCEBPAQTKVDLP 229

RESULT 6  
US-09-989-731,424  
Sequence 424, Application US/09989731  
Patent No. US20020103125A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnuyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Guiney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C70  
CURRENT FILING DATE: US/09/989, 731  
PRIOR APPLICATION NUMBER: 2001-11-20  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/062250  
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PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607

PRIOR FILING DATE:	1998-06-02
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PRIOR FILING DATE:	1998-06-02
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PRIOR FILING DATE:	1998-06-04
PRIOR APPLICATION NUMBER:	60/088033
PRIOR FILING DATE:	1998-06-04
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PRIOR FILING DATE:	1998-06-04
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PRIOR FILING DATE:	1998-06-05
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PRIOR FILING DATE:	1998-06-09
PRIOR APPLICATION NUMBER:	60/088723
PRIOR FILING DATE:	1998-06-10
PRIOR APPLICATION NUMBER:	60/089733
PRIOR FILING DATE:	1998-06-10
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PRIOR FILING DATE:	1998-06-10
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PRIOR APPLICATION NUMBER:	60/089600
PRIOR FILING DATE:	1998-06-17
PRIOR APPLICATION NUMBER:	60/089655
PRIOR FILING DATE:	1998-06-17
PRIOR APPLICATION NUMBER:	60/089801
PRIOR FILING DATE:	1998-06-18

[illegible]

PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODBDGTTTNTIKRKALVSVGASSFWNRVALLILLICVGVVGLVALGIMSVQGN 60  
1 MODBDGTTTNTIKRKALVSVGASSFWNRVALLILLICVGVVGLVALGIMSVQGN 60

DB 1 YLDQENNRCTLOOLKRFQVYVVKSELKGTGKHKSPCDINMEYYGDSYGFPRN 120  
61 YLDQENNRCTLOOLKRFQVYVVKSELKGTGKHKSPCDINMEYYGDSYGFPRN 120

QY 61 YLDQENNRCTLOOLKRFQVYVVKSELKGTGKHKSPCDINMEYYGDSYGFPRN 120  
61 YLDQENNRCTLOOLKRFQVYVVKSELKGTGKHKSPCDINMEYYGDSYGFPRN 120

DB 121 LTWEESKQYCTDNNAATLTKIDNRIWYIKARTHLIRWVGLSRQKSNFWMKEDGVISE 180  
121 LTWEESKQYCTDNNAATLTKIDNRIWYIKARTHLIRWVGLSRQKSNFWMKEDGVISE 180

QY 181 NMFEFLBDGKGNMCAVPHNGKAPTECEKHLYLMCEKAKMTKVDLP 229  
181 NMFEFLBDGKGNMCAVPHNGKAPTECEKHLYLMCEKAKMTKVDLP 229

DB 181 NMFEFLBDGKGNMCAVPHNGKAPTECEKHLYLMCEKAKMTKVDLP 229  
181 NMFEFLBDGKGNMCAVPHNGKAPTECEKHLYLMCEKAKMTKVDLP 229

RESULT 7  
US-09-989-732-424  
Sequence 424, Application US/09989732  
Patent No. US20020123463A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Ford, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertsen, Mary E.  
APPLICANT: Goddard, Audrey J.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1057  
CURRENT APPLICATION NUMBER: US/09/989,732  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28

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PRIOR FILING DATE: 1998-06-26  
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PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
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PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02

PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MOEDGYITNTIRRPALVSGPASPFWRVVALLITLCYAMVGLVALGTSVQWRN 60  
Db 1 MOEDGYITNTIRRPALVSGPASPFWRVVALLITLCYAMVGLVALGTSVQWRN 60

Qy 61 YLDENENRTGTIQLAKRCQYVVKQSELKGTFFKHKCSPCDTNRRYDSCYGFPRN 120  
Db 61 YLDENENRTGTIQLAKRCQYVVKQSELKGTFFKHKCSPCDTNRRYDSCYGFPRN 120

Qy 121 LTMESKQYCTDMNATLKTIDNNTIVEYIKARTHLRWGLSRQSKSEVWKEDSVISE 180  
Db 121 LTMESKQYCTDMNATLKTIDNNTIVEYIKARTHLRWGLSRQSKSEVWKEDSVISE 180

Qy 181 NMPEFLDGGKNNNCAYFHNGKMEPTFCENKHYLMGRKAGMTKVDLP 229  
Db 181 NMPEFLDGGKNNNCAYFHNGKMEPTFCENKHYLMGRKAGMTKVDLP 229

RESULT 8  
US-09-991-073-424  
Sequence 424, Application US/09991073  
Patent No. US20020127576A1

GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Bostein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Raton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Guiney, Austin J.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C15  
CURRENT APPLICATION NUMBER: US/09/991,073  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945

PRIOR FILING DATE: 1998-02-25	PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20	PRIOR APPLICATION NUMBER: 60/083322
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PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28	PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02	PRIOR APPLICATION NUMBER: 60/087609
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PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088326
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PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088217
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PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089538

1	PRIOR APPLICATION NUMBER: 60/039558
2	PRIOR FILING DATE: 1998-06-17
3	PRIOR APPLICATION NUMBER: 60/089599
4	PRIOR FILING DATE: 1998-06-17
5	PRIOR APPLICATION NUMBER: 60/089600
6	PRIOR FILING DATE: 1998-06-17
7	PRIOR APPLICATION NUMBER: 60/085653
8	PRIOR FILING DATE: 1998-06-17
9	PRIOR APPLICATION NUMBER: 60/089801
10	PRIOR FILING DATE: 1998-06-18
11	PRIOR APPLICATION NUMBER: 60/089907
12	PRIOR FILING DATE: 1998-06-18
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17	PRIOR APPLICATION NUMBER: 60/089948
18	PRIOR FILING DATE: 1998-06-19
19	PRIOR APPLICATION NUMBER: 60/089952
20	PRIOR FILING DATE: 1998-06-19
21	PRIOR APPLICATION NUMBER: 60/090246
22	PRIOR FILING DATE: 1998-06-22
23	PRIOR APPLICATION NUMBER: 60/090252
24	PRIOR FILING DATE: 1998-06-22
25	PRIOR APPLICATION NUMBER: 60/090254
26	PRIOR FILING DATE: 1998-06-22
27	PRIOR APPLICATION NUMBER: 60/090349
28	PRIOR FILING DATE: 1998-06-23
29	PRIOR APPLICATION NUMBER: 60/090355
30	PRIOR FILING DATE: 1998-06-23
31	PRIOR APPLICATION NUMBER: 60/090429
32	PRIOR FILING DATE: 1998-06-24
33	PRIOR APPLICATION NUMBER: 60/090431
34	PRIOR FILING DATE: 1998-06-24
35	PRIOR APPLICATION NUMBER: 60/090435
36	PRIOR FILING DATE: 1998-06-24
37	PRIOR APPLICATION NUMBER: 60/090444
38	PRIOR FILING DATE: 1998-06-24
39	PRIOR APPLICATION NUMBER: 60/090445
40	PRIOR FILING DATE: 1998-06-24
41	PRIOR APPLICATION NUMBER: 60/090472
42	PRIOR FILING DATE: 1998-06-24
43	PRIOR APPLICATION NUMBER: 60/090535
44	PRIOR FILING DATE: 1998-06-24
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46	PRIOR FILING DATE: 1998-06-24
47	PRIOR APPLICATION NUMBER: 60/090542
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49	PRIOR APPLICATION NUMBER: 60/090557
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51	PRIOR APPLICATION NUMBER: 60/090676
52	PRIOR FILING DATE: 1998-06-25
53	PRIOR APPLICATION NUMBER: 60/090695
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56	PRIOR FILING DATE: 1998-06-25
57	PRIOR APPLICATION NUMBER: 60/090650
58	PRIOR FILING DATE: 1998-06-25
59	PRIOR APPLICATION NUMBER: 60/090682
60	PRIOR FILING DATE: 1998-06-26
61	PRIOR APPLICATION NUMBER: 60/090863
62	PRIOR FILING DATE: 1998-06-26
63	PRIOR APPLICATION NUMBER: 60/091360
64	PRIOR FILING DATE: 1998-07-01
65	PRIOR APPLICATION NUMBER: 60/091478
66	PRIOR FILING DATE: 1998-07-02
67	PRIOR APPLICATION NUMBER: 60/091544
68	PRIOR FILING DATE: 1998-07-01
69	PRIOR APPLICATION NUMBER: 60/091519

PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGGYITLNTKTKRPAIVSVGPASSFMMRMALILILICVGMVVGVALGIMVMOGN 60  
DB 1 MODEGGYITLNTKTKRPAIVSVGPASSFMMRMALILILICVGMVVGVALGIMVMOGN 60  
QY 61 YIODENERGTGLQOLARFCQYVVKQSEIKGTFEGHKOSPCDTNWRYYGDSCTGFFPHN 120  
DB 61 YIODENERGTGLQOLARFCQYVVKQSEIKGTFEGHKOSPCDTNWRYYGDSCTGFFPHN 120  
QY 121 LTWESKQYCTDMNATLTKIDNRNIVEYIKARTHLIRWVGISPOKSNVWVKWEDGSVISE 180  
DB 121 LTWESKQYCTDMNATLTKIDNRNIVEYIKARTHLIRWVGISPOKSNVWVKWEDGSVISE 180  
QY 181 NMFEFLDQKGNMCAYPFNGMPTFCENKHYLMCEKAKGCTKVDP 229  
DB 181 NMFEFLDQKGNMCAYPFNGMPTFCENKHYLMCEKAKGCTKVDP 229

## RESULT 9

US-09-990-442-424  
Sequence 424, Application US/09990442  
Patent No. US20020132252A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2/3021C8  
CURRENT APPLICATION NUMBER: US/09/990,442  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12

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PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
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PRIOR FILING DATE: 1998-02-25  
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PRIOR FILING DATE: 1998-06-12  
PRIOR APPLICATION NUMBER: 60/089440  
PRIOR FILING DATE: 1998-06-16  
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PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089514

PRIOR FILING DATE: 1998-06-16  
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PRIOR APPLICATION NUMBER: 60/089599  
PRIOR FILING DATE: 1998-06-17  
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PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089653  
PRIOR FILING DATE: 1998-06-17  
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PRIOR FILING DATE: 1998-06-24  
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PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01

PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4.1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGYITNTITRKPAIVSVGPASSFWRVNALLILICVGMVYGVVALGIMSWQRN 60  
Db 1 MODEDGYITNTITRKPAIVSVGPASSFWRVNALLILICVGMVYGVVALGIMSWQRN 60  
QY 61 YLQDENENRTGTQOQAKRRCQYVVKOSLKGTFKHKGSPCDTNMEYVDSQCYGPPRRN 120  
Db 61 YLQDENENRTGTQOQAKRRCQYVVKOSLKGTFKHKGSPCDTNMEYVDSQCYGPPRRN 120  
QY 121 LTWESKQYCTDMATLLKIDNINVEYIKARTILIRVGLSKQSNVWKMEDGSYISE 180  
Db 121 LTWESKQYCTDMATLLKIDNINVEYIKARTILIRVGLSKQSNVWKMEDGSYISE 180  
QY 181 NMFFFLDGGKNNCAFEHNGKAPTECEKHYLMCRKRGMTKYDLP 229  
Db 181 NMFFFLDGGKNNCAFEHNGKAPTECEKHYLMCRKRGMTKYDLP 229

RESULT 10  
US-09-991-163-424  
Sequence 424, Application US/09991163  
Patent No. US20020132253A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Ealon, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kjaavin, Ivar J.  
APPLICANT: Kaplan, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C17  
CURRENT APPLICATION NUMBER: US/09/991,163  
PRIOR FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787



PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODDDGTTTNTKRRKALNVSGASSFWRVMLILLICVGVVGLVGLVMSVQRN 60  
DB 1 MODDDGTTTNTKRRKALNVSGASSFWRVMLILLICVGVVGLVGLVMSVQRN 60  
QY 61 YLQENENRGTTLQQLAKRFQYVVKQSEKGTGKHKSPCDTNNWEYVYDSCYGFPRIN 120  
DB 61 YLQENENRGTTLQQLAKRFQYVVKQSEKGTGKHKSPCDTNNWEYVYDSCYGFPRIN 120  
QY 121 LTWEESKQYCTDMNATLLIKIDNNIYVYIKARTHLIRWGLSRQKSNEVWMEDEGVISE 180  
DB 121 LTWEESKQYCTDMNATLLIKIDNNIYVYIKARTHLIRWGLSRQKSNEVWMEDEGVISE 180  
QY 181 NMFEFLDGGKNNKCAVFNHGRMPTPCENHGMCEKAKMTVVDLP 229  
DB 181 NMFEFLDGGKNNKCAVFNHGRMPTPCENHGMCEKAKMTVVDLP 229

## RESULT 11

US-09-993-604-424

Sequence 424; Application US/09993604

Patent No. US20020137075A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnovers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerdner, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kjaevik, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C25  
CURRENT APPLICATION NUMBER: US/09/993,604  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy 121 LTWEESKQYCTDNNATLTKIDNENIVYIQAHTHLIRWGLSRQKSNEVWKMEDGVISE 180  
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Db 181 NMFEPLDGGKNNCAEFHNGKMHPTFCCKHYLMCKRKAQMTKVDLP 229  
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RESULT 12  
US-09-990-456-424  
Sequence 424, Application US/09990456  
Patent No. US20020137890A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan J.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christosher  
APPLICANT: Gunney, Austin D.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC2  
CURRENT APPLICATION NUMBER: US/09/990,456  
PRIOR FILING DATE: 2001-11-14  
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PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 225;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 181 NMFELEDEGKNMNCAYPHNGRMEPTFCENKHVILMCEKKAQTKVDQLP 229  
DB 181 NMFELEDEGKNMNCAYPHNGRMEPTFCENKHVILMCEKKAQTKVDQLP 229

RESULT 13  
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Sequence 424: Application US/09989721  
Patent No. US20020142961A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Borstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Ford, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertlisen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.

APPLICANT: Pan, James  
APPLICANT: Peoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C55  
CURRENT APPLICATION NUMBER: US/09/989,721  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
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PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;  
Best Local Similarity 99.4%; Pred. No. 4, 1e-119; Indels 0; Gaps 0;  
Matches 228; Conservative 0; Mismatches 1;

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QY 121 LTWEESKOYCTDMNATLTKIDNRIVYIKARTHLISWGLSRQKSNEWWMZEDGSYISE 180  
DB 121 LTWEESKOYCTDMNATLTKIDNRIVYIKARTHLISWGLSRQKSNEWWMZEDGSYISE 180  
QY 181 NMFELEDGKNNMCAYFHNGKMAFTFCENKGYLMCRKAGYTVDP 229  
DB 181 NMFELEDGKNNMCAYFHNGKMAFTFCENKGYLMCRKAGYTVDP 229

RESULT 14  
US-09-992-598-424  
Sequence 424, Application US//09992598  
Patent No. US20020160384A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Geider, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul U.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gunney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Paoli, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730PIC20  
CURRENT APPLICATION NUMBER: US/09/992,598  
PRIOR FILING DATE: 2001-11-14  
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/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/091982
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/092182
/ PRIOR FILING DATE: 1998-07-09

Query Match          99.4%; Score 1253; DB 10; Length 229;
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/ Patent No. US20020177164A1
/ GENERAL INFORMATION:
/ APPLICANT: Ashkenazi, Avi J.
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnovers, Luc
/ APPLICANT: Baton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gerber, Hanspeter
/ APPLICANT: Geritsen, Wai-Y E.
/ APPLICANT: Goddard, Audrey
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/ APPLICANT: Guiney, Austin L.
/ APPLICANT: Kijavitt, Ivar J.
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/ APPLICANT: Paoni, Nicholas F.
/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Thomas, Daniel
/ APPLICANT: Watanabe, Colin K.
/ APPLICANT: Williams, P. Mickey
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Zemin
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ TITLE OF INVENTION: Acids Encoding the Same
/ FILE REFERENCE: P2730P1C6
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/ CURRENT FILING DATE: 2001-11-20
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/ PRIOR APPLICATION NUMBER: 60/088212
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PRIOR FILING DATE:	1998-07-27
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PRIOR FILING DATE:	1998-07-09

Query Match	99.4%	Score 1253;	DB 10;	Length 229;
Best Local Similarity	99.6%	Pred. NO. 4.1e-119;		
Matches 228; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0

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; Publication No. US20020193329A1  
; GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
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APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
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APPLICANT: Kljavin, Ivar J.  
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APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P27301C61  
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PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/088876  
PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/089105  
PRIOR FILING DATE: 1998-06-12  
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PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090429  
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PRIOR FILING DATE: 1998-06-24  
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PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090444  
PRIOR FILING DATE: 1998-06-24  
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PRIOR APPLICATION NUMBER: 60/090472  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090535  
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PRIOR FILING DATE: 1998-06-25  
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PRIOR FILING DATE: 1998-06-25  
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PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
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PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGGYTLNINIKTKPPLVSVGPASSFWRMALIIILICGVWVGVAGIWSVORN 60  
DB 1 MODEGGYTLNINIKTKPPLVSVGPASSFWRMALIIILICGVWVGVAGIWSVORN 60  
QY 61 YLDENENRGTGLQGLARFCQYVVKQSELKGTENGKSPCDINWRYGSGCYFFPHN 120  
DB 61 YLDENENRGTGLQGLARFCQYVVKQSELKGTENGKSPCDINWRYGSGCYFFPHN 120  
QY 121 LTWESKQYCTDMAATLTKIDNRNIVETIKATHLIRWVGLSFQKSNBVMWKEGSGVISE 180  
DB 121 LTWESKQYCTDMAATLTKIDNRNIVETIKATHLIRWVGLSFQKSNBVMWKEGSGVISE 180  
QY 181 NMFELBDGKNMCAVYFHNKGMPPTPCENKXYLNCERKAGTKYDOLP 229  
DB 181 NMFELBDGKNMCAVYFHNKGMPPTPCENKXYLNCERKAGTKYDOLP 229

RESULT 17  
US-09-930-444-424  
Sequence 424, Application US/09990444  
Publication No. US20020193300A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Ealon, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: 227301C19  
CURRENT APPLICATION NUMBER: US/39/990,444  
PRIOR FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
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PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
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PRIOR FILING DATE: 1998-06-04  
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PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088326  
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PRIOR FILING DATE: 1998-06-24  
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PRIOR FILING DATE: 1998-06-24  
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PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODDEGYITLNTKTKRPALVSVPASSFPMWRVMAILLILCVGMVVGVALGIMVMOGN 60  
DB 1 MODDEGYITLNTKTKRPALVSVPASSFPMWRVMAILLILCVGMVVGVALGIMVMOGN 60  
QY 61 YQDENENRFTGLQOLAKRFGQYVVKOSFLKOTFEGHKCSPPDITWRYGDSGCGYFRFN 120  
DB 61 YQDENENRFTGLQOLAKRFGQYVVKOSFLKOTFEGHKCSPPDITWRYGDSGCGYFRFN 120  
QY 121 LFWESKOYCTDMNATLTKIDNRNTVEYIKATHTLIBRWGLSRKSNSEVWKMEDGVS 180  
DB 121 LFWESKOYCTDMNATLTKIDNRNTVEYIKATHTLIBRWGLSRKSNSEVWKMEDGVS 180



QY 181 NMFEELBEGKNNMCAFFENGMHPTFCNKHYLMCERRAGMXTVDLP 229  
DB 181 NMFEELBEGKNNMCAFFENGMHPTFCNKHYLMCERRAGMXTVDLP 229  
RESULT 18  
US-09-991-181-424  
/ Sequence 424, Application US/09991181  
/ Publication No. US20020197615A1  
/ GENERAL INFORMATION:  
/ APPLICANT: Ashkenazi, Avi U.  
/ APPLICANT: Baker, Kevin P.  
/ APPLICANT: Botstein, David  
/ APPLICANT: Desnoyers, Luc  
/ APPLICANT: Eaton, Dan L.  
/ APPLICANT: Ferrara, Napoleone  
/ APPLICANT: Fong, Sherman  
/ APPLICANT: Gerber, Hanspeter  
/ APPLICANT: Gerlitsen, Mary E.  
/ APPLICANT: Goddard, Audrey  
/ APPLICANT: Grimaldi, J. Christopher  
/ APPLICANT: Gurney, Austin L.  
/ APPLICANT: Kijavitt, Ivar J.  
/ APPLICANT: Napier, Mary A.  
/ APPLICANT: Pan, James  
/ APPLICANT: Paoni, Nicholas F.  
/ APPLICANT: Roy, Margaret Ann  
/ APPLICANT: Stewart, Timothy A.  
/ APPLICANT: Tumas, Daniel  
/ APPLICANT: Watanabe, Colin K.  
/ APPLICANT: Williams, P. Mickey  
/ APPLICANT: Wood, William I.  
/ APPLICANT: Zhang, Zemin  
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
/ FILE OF INVENTION: Acids Encoding the Same  
/ FILE REFERENCE: P2730PIC53  
/ CURRENT APPLICATION NUMBER: US/09/991,181  
/ PRIOR FILING DATE: 2001-11-16  
/ PRIOR APPLICATION NUMBER: 60/049787  
/ PRIOR FILING DATE: 1997-06-16  
/ PRIOR APPLICATION NUMBER: 60/062250  
/ PRIOR FILING DATE: 1997-10-17  
/ PRIOR APPLICATION NUMBER: 60/065186  
/ PRIOR FILING DATE: 1997-11-12  
/ PRIOR APPLICATION NUMBER: 60/065311  
/ PRIOR FILING DATE: 1997-11-13  
/ PRIOR APPLICATION NUMBER: 60/066770  
/ PRIOR FILING DATE: 1997-11-24  
/ PRIOR APPLICATION NUMBER: 60/075945  
/ PRIOR FILING DATE: 1998-02-25  
/ PRIOR APPLICATION NUMBER: 60/078910  
/ PRIOR FILING DATE: 1998-03-20  
/ PRIOR APPLICATION NUMBER: 60/083322  
/ PRIOR FILING DATE: 1998-04-28  
/ PRIOR APPLICATION NUMBER: 60/084600  
/ PRIOR FILING DATE: 1998-05-07  
/ PRIOR APPLICATION NUMBER: 60/087106  
/ PRIOR FILING DATE: 1998-05-28  
/ PRIOR APPLICATION NUMBER: 60/087607  
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/ PRIOR FILING DATE: 1998-06-02  
/ PRIOR APPLICATION NUMBER: 60/087759  
/ PRIOR FILING DATE: 1998-06-02  
/ PRIOR APPLICATION NUMBER: 60/087827  
/ PRIOR FILING DATE: 1998-06-03  
/ PRIOR APPLICATION NUMBER: 60/088021  
/ PRIOR FILING DATE: 1998-06-04  
/ PRIOR APPLICATION NUMBER: 60/088025  
/ PRIOR FILING DATE: 1998-06-04  
/ PRIOR APPLICATION NUMBER: 60/088026  
/ PRIOR FILING DATE: 1998-06-04

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/ PRIOR FILING DATE: 1998-06-04  
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/ PRIOR APPLICATION NUMBER: 60/088202  
/ PRIOR FILING DATE: 1998-06-05  
/ PRIOR APPLICATION NUMBER: 60/088734  
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/ PRIOR FILING DATE: 1998-06-10  
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/ PRIOR FILING DATE: 1998-06-18  
/ PRIOR APPLICATION NUMBER: 60/089907  
/ PRIOR FILING DATE: 1998-06-18  
/ PRIOR APPLICATION NUMBER: 60/089908  
/ PRIOR FILING DATE: 1998-06-18  
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/ PRIOR FILING DATE: 1998-06-19  
/ PRIOR APPLICATION NUMBER: 60/089948  
/ PRIOR FILING DATE: 1998-06-19  
/ PRIOR APPLICATION NUMBER: 60/089952  
/ PRIOR FILING DATE: 1998-06-19  
/ PRIOR APPLICATION NUMBER: 60/090246  
/ PRIOR FILING DATE: 1998-06-22  
/ PRIOR APPLICATION NUMBER: 60/090252





Db 1 MODEDEYITINIKTRKPAUVSVPASSSSWVRVALLILILICVGMVGLVALGIWSVMORX 60  
QY 61 YUDDENENRTGTUQOLAKRQCQVYVXOSLKTGFKGKSCPDCTNRRYYGDSYGFRRN 120  
Db 61 YUDDENENRTGTUQOLAKRQCQVYVXOSLKTGFKGKSCPDCTNRRYYGDSYGFRRN 120  
QY 121 LTWEESKQYCTDMATLTKIDNRIYVYIKARTHLIRWGLSRQKSNEVWKWEDSIVSE 180  
Db 121 LTWEESKQYCTDMATLTKIDNRIYVYIKARTHLIRWGLSRQKSNEVWKWEDSIVSE 180  
QY 181 NMFEPLFDGKNMNCAYFHNGKXHPPTGCKHYLMGCRKGMTRVQOLP 229  
Db 181 NMFEPLFDGKNMNCAYFHNGKXHPPTGCKHYLMGCRKGMTRVQOLP 229

RESULT 20  
US-09-900-436-424  
Sequence 424, Application US/09990436  
Publication No. US20020198148A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Deenoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivay J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C14  
CURRENT APPLICATION NUMBER: US/09/990,436  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078810  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
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PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
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PRIOR FILING DATE: 1998-06-03  
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PRIOR FILING DATE: 1998-06-04  
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PRIOR FILING DATE: 1998-06-04  
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PRIOR APPLICATION NUMBER: 60/089653  
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PRIOR FILING DATE: 1998-06-18  
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PRIOR APPLICATION NUMBER: 60/089908

PRIOR FILING DATE: 1998-06-18  
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PRIOR FILING DATE: 1998-06-19  
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PRIOR FILING DATE: 1998-06-22  
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PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 10; Length 229;

Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MOEDGYYITNINIKTRKPAIVSGPASSFWRVALLILICVGVVGLVALGIVSWQRN 60  
Db 1 MOEDGYYITNINIKTRKPAIVSGPASSFWRVALLILICVGVVGLVALGIVSWQRN 60  
QY 61 YLQDENENRTGTLQOLAKRFQYVVKQSELIKGFPEKHKSPDPTNWAYYSQSCYGFPRN 120  
Db 61 YLQDENENRTGTLQOLAKRFQYVVKQSELIKGFPEKHKSPDPTNWAYYSQSCYGFPRN 120  
QY 121 LTWEESKQYCTDNNATLTKIDNNINIVYIKARPTLITWGLSRQKSNWVWZMEDGSYISE 180  
Db 121 LTWEESKQYCTDNNATLTKIDNNINIVYIKARPTLITWGLSRQKSNWVWZMEDGSYISE 180  
QY 181 NMFEFLDGGKNNCAAYFHNGKMHFPFCENKHYIMCERKAGMTKVDLP 229  
Db 181 NMFEFLDGGKNNCAAYFHNGKMHFPFCENKHYIMCERKAGMTKVDLP 229  
RESULT 21  
US-09-993-687-424  
Sequence 424, Application US/09993687  
Publication No. US20020198149A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Bolstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerder, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gunney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumasi, Daniel  
APPLICANT: Williams, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C11  
CURRENT APPLICATION NUMBER: US/09/993,687  
CURRENT FILING DATE: 2002-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106

[illegible]

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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09
Query Match
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Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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DB 1 MODEGTYITLNKTKRPAIVSYGPPASSFWRMVALILILCVGTVGLVAGISVWGQN 60
QY 61 YLQDENERTGTLQOLARFCQYVVKQSELKGTGFGHOSPCDITNWRYYGSCYGFRRN 120
DB 61 YLQDENERTGTLQOLARFCQYVVKQSELKGTGFGHOSPCDITNWRYYGSCYGFRRN 120
QY 121 LTWESKQYCTDMNATLKKIDRNIVEYIKATHTLIRWVGLSPQKSNVWKMEDSGVISE 180
DB 121 LTWESKQYCTDMNATLKKIDRNIVEYIKATHTLIRWVGLSPQKSNVWKMEDSGVISE 180
QY 181 NMFELEDKGMNCAVFNHNGMHTPCENKGYLMCEKXAGTKVDLP 229
DB 181 NMFELEDKGMNCAVFNHNGMHTPCENKGYLMCEKXAGTKVDLP 229

RESULT 22
US-09-989-734-424
; Sequence 424, Application US/09989734
; Publication No. US2003003531A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desmoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fond, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavich, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FTE REFERENCE: P2730P1C64
; CURRENT APPLICATION NUMBER: US/09/989,734
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
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; PRIOR FILING DATE: 1997-10-17
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; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
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; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
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PRIOR FILING DATE: 1998-06-17  
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PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02

PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091992  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MCEDEGTTTNTTRKATVSGPAGSFFWRVVALILLICVGVVGLVALGWSWQRN 60  
DB 1 MCEDEGTTTNTTRKATVSGPAGSFFWRVVALILLICVGVVGLVALGWSWQRN 60  
QY 61 YLQDENENRTGLQQLAKRCQYVVKQSEELKGPFGHKQSPCDTMTWEYVYDSCYGFPRN 120  
DB 61 YLQDENENRTGLQQLAKRCQYVVKQSEELKGPFGHKQSPCDTMTWEYVYDSCYGFPRN 120  
QY 121 LTWEESKQYCTDMNATLTKTDNNTVYIYKARTLILRWGLSRQKSNWKMEDGSYISE 180  
DB 121 LTWEESKQYCTDMNATLTKTDNNTVYIYKARTLILRWGLSRQKSNWKMEDGSYISE 180  
QY 181 NMFEPLDGGKNNMCAYFENGKMPFCENKHYIMCERKAGMTVDQLP 229  
DB 181 NMFEPLDGGKNNMCAYFENGKMPFCENKHYIMCERKAGMTVDQLP 229

## RESULT 23

US-09-997-653-424

Sequence 424, Application US/09997653  
Publication No. US20030008297A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Ealon, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertlesen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, U. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin X.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P273021C38  
CURRENT APPLICATION NUMBER: US/09/997,653  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770



[illegible]

;; PRIOR FILING DATE: 1998-07-01  
;; PRIOR APPLICATION NUMBER: 60/091519  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091626  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091633  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091978  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09  
Query Match 99.4%; Score 1253; DB 11; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MODEGYITTNKTRKPAVSVGSSFWRMVALLILICVGVGLVAGIWSVQRN 60  
Db 1 MODEGYITTNKTRKPAVSVGSSFWRMVALLILICVGVGLVAGIWSVQRN 60  
QY 61 YLQENENRGTLOQLAKRFQYVVKSELKGTFRGKSPCDTNRYYGDSVCFRRN 120  
Db 61 YLQENENRGTLOQLAKRFQYVVKSELKGTFRGKSPCDTNRYYGDSVCFRRN 120  
QY 121 LTWESQYCTDMNATILKIDNRNIVEYIKATHLIRWGLSRKSNVWKMEDGSYISE 180  
Db 121 LTWESQYCTDMNATILKIDNRNIVEYIKATHLIRWGLSRKSNVWKMEDGSYISE 180  
QY 181 NMFFLEDGKGNMCAVFHNGKMPFCENHYIMCERKAGMTKYDOLP 229  
Db 181 NMFFLEDGKGNMCAVFHNGKMPFCENHYIMCERKAGMTKYDOLP 229  
RESULT 24  
US-09-993-667-424  
; Sequence 424, Application US/09993667  
; Publication No. US20030022187A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Bocstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gunney, Austin L.  
; APPLICANT: Kijavir, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730P14  
; CURRENT FILING DATE: US/09/993,667  
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 PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;  
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 DB 181 NMFEFLDGKNNMCAYFHNGKMHPTPCENKGYLMCEKAKMTKYDOLP 229

RESULT 25  
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 Publication No. US20030027162A1  
 GENERAL INFORMATION:  
 APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gertlisen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, V. Christopher  
 APPLICANT: Gurney, Austin J.  
 APPLICANT: Kljavin, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 FILE REFERENCE: P2730P1C44  
 CURRENT APPLICATION NUMBER: US/09/997,428

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/ PRIOR FILING DATE: 1998-07-09
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QY 121 LTWESSKOYCTDMNATLTKIDNRNIVEYIKARTHLIRWGLSRQKSNVEVKKWEDSVISE 180
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QY 181 NMFEFLDGGKNNMCAYFPNGKAPTFCCENKXYLMCCERRAKMTKYDOLP 229
Db 181 NMFEFLDGGKNNMCAYFPNGKAPTFCCENKXYLMCCERRAKMTKYDOLP 229
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RESULT 26  
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Publication No. US20030027163A1

## GENERAL INFORMATION:

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/ APPLICANT: Ashkenazi, Avi J.
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fogt, Sherman
/ APPLICANT: Gerber, Hanspeter
/ APPLICANT: Gertlisen, Mary E.
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, J. Christopher
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/ APPLICANT: Kljavin, Ivar C.
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/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Watanabe, Colin K.
/ APPLICANT: Williams, P. Mickey
/ APPLICANT: Wood, William I.
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APPLICANT: Zhang, Zhenli
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
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 PRIOR APPLICATION NUMBER: 60/090535  
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 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 2253; DB 11; Length 229;  
 Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MDEBXYITINIKTRKALVSVGPASSFFWMEVVALIILICVGMVGLVALGIVSWQKN 60  
 DB 1 MDEBXYITINIKTRKALVSVGPASSFFWMEVVALIILICVGMVGLVALGIVSWQKN 60  
 QY 61 YLDENENRGTLOOLAKRPGQYVVKOSLKGTFKGRKSCCDNNRYYGSCYGFPHN 120  
 DB 61 YLDENENRGTLOOLAKRPGQYVVKOSLKGTFKGRKSCCDNNRYYGSCYGFPHN 120  
 QY 121 LTWESKQYCPDNATLTKIDNRNIVYIKARTLIRWGLSPKSNSEWMEEDGSVISE 180  
 DB 121 LTWESKQYCPDNATLTKIDNRNIVYIKARTLIRWGLSPKSNSEWMEEDGSVISE 180  
 QY 181 NMFEFLBDGKNMNCAYFHNGKMPFCENKHYIMCERKAGMTYVDLP 229  
 DB 181 NMFEFLBDGKNMNCAYFHNGKMPFCENKHYIMCERKAGMTYVDLP 229

RESULT 27  
 US-09-990-438-424  
 Sequence 424, Application US/09990438  
 Publication No. US2003002754A1  
 GENERAL INFORMATION:  
 APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin J.  
 APPLICANT: Bocstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gottisen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kijavich, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Par, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tamas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 FILE REFERENCE: P2730PIC3  
 CURRENT APPLICATION NUMBER: US/09/590,438  
 CURRENT FILING DATE: 2001-11-14  
 PRIOR APPLICATION NUMBER: 60/049787  
 PRIOR FILING DATE: 1997-06-16  
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 PRIOR FILING DATE: 1997-11-24  
 PRIOR APPLICATION NUMBER: 60/075945  
 PRIOR FILING DATE: 1998-02-25  
 PRIOR APPLICATION NUMBER: 60/078910  
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 PRIOR FILING DATE: 1998-05-07  
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 PRIOR FILING DATE: 1998-05-28  
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 PRIOR FILING DATE: 1998-06-02  
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 PRIOR FILING DATE: 1998-06-02  
 PRIOR APPLICATION NUMBER: 60/087759  
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 PRIOR APPLICATION NUMBER: 60/088734  
 PRIOR FILING DATE: 1998-06-10  
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 PRIOR FILING DATE: 1998-06-10  
 PRIOR APPLICATION NUMBER: 60/088742  
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PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4% Score 1253; DB 11; Length 229;  
Best Local Similarity 99.6%; Pred No. 4, 1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGGYITLNKIKTKRPAIVSVGPASSFWRMVALIILICVGVVGVVAGIWSVQAN 60  
DB 1 MODEGGYITLNKIKTKRPAIVSVGPASSFWRMVALIILICVGVVGVVAGIWSVQAN 60  
QY 61 YIODENENRTGTLQOLARFCQYVVKQSEIKTFRGHKSPEDTWRVYGS CYFFREN 120  
DB 61 YIODENENRTGTLQOLARFCQYVVKQSEIKTFRGHKSPEDTWRVYGS CYFFREN 120  
QY 121 LTWESKOYCTDMNATLIXIDNRNIVEYIKARTHLIRWGLSPQKSNVWKEDESVSE 180  
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QY 181 NMFELELDGKNNMCAYFPHNGKAPTFCEKNKIYLMCERRAKMTKYDQLP 229  
DB 181 NMFELELDGKNNMCAYFPHNGKAPTFCEKNKIYLMCERRAKMTKYDQLP 229

RESULT 28  
US-09-990-562-424  
Sequence 424, Application US/09990562  
Publication No. US20030027985A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Geber, Hanspeter  
APPLICANT: Geritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Pao, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C18  
CURRENT FILING DATE: 2001-11-14  
PRIOR FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
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PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
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PRIOR APPLICATION NUMBER: 60/084600  
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PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088738



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/ PRIOR APPLICATION NUMBER: 60/090542
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/ PRIOR APPLICATION NUMBER: 60/090557
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/ PRIOR APPLICATION NUMBER: 60/090676
/ PRIOR FILING DATE: 1998-06-25
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/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091633
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091978
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/091982
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/092182
/ PRIOR FILING DATE: 1998-07-09

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Query Match 99.4%; Score 1253; DB 11; Length 229;  
 Best Local Similarity 99.6%; Pred. No. 4.1e-119;  
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 MODEGGYTLTKIKTRKPLVSVGPASSFTWKRVMALLILLCYGVVGLVALGINSVMQRN 60
Db 1 MODEGGYTLTKIKTRKPLVSVGPASSFTWKRVMALLILLCYGVVGLVALGINSVMQRN 60
QY 61 YLQDENENRTGTLQOLARFCQYVVKQSELTGTFKHKCSPCDTWKRYGDSYGFPRIN 120
Db 61 YLQDENENRTGTLQOLARFCQYVVKQSELTGTFKHKCSPCDTWKRYGDSYGFPRIN 120
QY 121 LTWBSKOYCTDNNATLTKIDNNIIVEYIKARTHLIRWVGLSRQSNFVWKMEDGSVISE 180
Db 121 LTWBSKOYCTDNNATLTKIDNNIIVEYIKARTHLIRWVGLSRQSNFVWKMEDGSVISE 180
QY 181 NMFELDEKGNMNCAYFHNKMPHTPCENKHYLMCEKAKGTVDQJ 229
Db 181 NMFELDEKGNMNCAYFHNKMPHTPCENKHYLMCEKAKGTVDQJ 229

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RESULT 29
US-09-990-711-424
/ Sequence 424, Application US/09950711
/ Publication No. US2003032023A1
/ GENERAL INFORMATION:
/ APPLICANT: Ashkenazi, Avi J.
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Bakstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gerber, Hanspeter

```

APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavitt, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P273091C2  
CURRENT APPLICATION NUMBER: US/09/990,711  
PRIOR FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
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Query Match 99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 61 YLDENENRTGTLQOLAKRRCQYVVKOSHLKGFKGKSCPTTNMYGDSYGFPRFN 120
QY 121 LFWESKQYCTDMNATLLKIDNENIYEYIKARPHLIRWVGSRQKNEVWKMDGVSIE 180
DB 121 LFWESKQYCTDMNATLLKIDNENIYEYIKARPHLIRWVGSRQKNEVWKMDGVSIE 180
QY 181 NMEFELEDGKNNKCAVFNNGKHPFCEKHYLMCEKRAKMTKVDLP 229
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RESULT 30
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; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David

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; APPLICANT: Baton, Dan L.
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; APPLICANT: Genber, Hanspeter
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; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1060
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; PRIOR FILING DATE: 1998-07-09

Query Match          99.4%; Score 1253; DB 11; Length 229;
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Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 61 YLQDENENFTGLIQJAKRFQYVYVQSELKXTFKQHKQSPCDTWRRYVGDSCYGFRRN 120
DB 61 YLQDENENFTGLIQJAKRFQYVYVQSELKXTFKQHKQSPCDTWRRYVGDSCYGFRRN 120
QY 121 LWBESKQYCTDMNATLKIIDRNIVEYTKATHLIRWGLSRQKSNFVWKWEDGSLSE 180
DB 121 LWBESKQYCTDMNATLKIIDRNIVEYTKATHLIRWGLSRQKSNFVWKWEDGSLSE 180
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DB 181 NMFEPLEDGKXNNNGAYFENGKQKHPTECENKHYLMQERRAKMTKVQDLP 229

RESULT 31
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; Sequence 424, Application US/0998156
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Publication No. US20030044806A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoves, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Ford, Sherman  
APPLICANT: Gerdler, Hanspeter  
APPLICANT: Gertsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
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APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
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;; PRIOR APPLICATION NUMBER: 60/090696  
;; PRIOR FILING DATE: 1998-06-25  
;; PRIOR APPLICATION NUMBER: 60/090862  
;; PRIOR FILING DATE: 1998-06-26  
;; PRIOR APPLICATION NUMBER: 60/090863  
;; PRIOR FILING DATE: 1998-06-26  
;; PRIOR APPLICATION NUMBER: 60/093360  
;; PRIOR FILING DATE: 1998-07-01  
;; PRIOR APPLICATION NUMBER: 60/093478  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/093544  
;; PRIOR FILING DATE: 1998-07-01  
;; PRIOR APPLICATION NUMBER: 60/093519  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/093626  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/093633  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/093978  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/093982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-05

Query Match 99.4%; Score 1253; DB 11; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGCTTNTKTKRKPALVGVGZASSFWKRVMAILLILLVGVWVGVVAAGTSTVQGN 60  
DB 1 MODSGYITLNTKTKRKPALVGVGZASSFWKRVMAILLILLVGVWVGVVAAGTSTVQGN 60  
QY 61 YLQDENENRGTGLQOLARFCQYVVKQSEKGTFFGKHCSQCDENWRYGDSGYFFPHN 120  
DB 61 YLQDENENRGTGLQOLARFCQYVVKQSEKGTFFGKHCSQCDENWRYGDSGYFFPHN 120  
QY 121 LTWBSKQYCTDVAATLTKIDNENIIVYTKARTHLIRWVGLSFKQSNVWKMEDGSVISE 130  
DB 121 LTWBSKQYCTDVAATLTKIDNENIIVYTKARTHLIRWVGLSFKQSNVWKMEDGSVISE 130  
QY 181 NMFFLEDDGKGNMCAVFNHNGKMHPTFCENKHYLMCEKAKMTVDOLP 229  
DB 181 NMFFLEDDGKGNMCAVFNHNGKMHPTFCENKHYLMCEKAKMTVDOLP 229

RESULT 32  
US-09-990-437-424  
; Sequence 424, Application US/09990437  
; Publication No. US20030045463A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Forg, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas P.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Thomas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemit.  
; TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730P1C49  
; CURRENT FILING DATE: 2001-11-16  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
; PRIOR FILING DATE: 1997-11-12  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/066770  
; PRIOR FILING DATE: 1997-11-24  
; PRIOR APPLICATION NUMBER: 60/075945  
; PRIOR FILING DATE: 1998-02-25  
; PRIOR APPLICATION NUMBER: 60/078910  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/083322  
; PRIOR FILING DATE: 1998-04-28  
; PRIOR APPLICATION NUMBER: 60/084600  
; PRIOR FILING DATE: 1998-05-07  
; PRIOR APPLICATION NUMBER: 60/087106  
; PRIOR FILING DATE: 1998-05-28  
; PRIOR APPLICATION NUMBER: 60/087607  
; PRIOR FILING DATE: 1998-06-02  
; PRIOR APPLICATION NUMBER: 60/087609  
; PRIOR FILING DATE: 1998-06-02  
; PRIOR APPLICATION NUMBER: 60/087759  
; PRIOR FILING DATE: 1998-06-02  
; PRIOR APPLICATION NUMBER: 60/087827  
; PRIOR FILING DATE: 1998-06-03  
; PRIOR APPLICATION NUMBER: 60/088021  
; PRIOR FILING DATE: 1998-06-04  
; PRIOR APPLICATION NUMBER: 60/088025  
; PRIOR FILING DATE: 1998-06-04  
; PRIOR APPLICATION NUMBER: 60/088026  
; PRIOR FILING DATE: 1998-06-04  
; PRIOR APPLICATION NUMBER: 60/088028  
; PRIOR FILING DATE: 1998-06-04  
; PRIOR APPLICATION NUMBER: 60/088029

PRIOR FILING DATE: 1998-06-04  
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 PRIOR FILING DATE: 1998-06-04  
 PRIOR APPLICATION NUMBER: 60/088033  
 PRIOR FILING DATE: 1998-06-04  
 PRIOR APPLICATION NUMBER: 60/088326  
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 PRIOR APPLICATION NUMBER: 60/088167  
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 PRIOR APPLICATION NUMBER: 60/088212  
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 PRIOR FILING DATE: 1998-06-22  
 PRIOR APPLICATION NUMBER: 60/090252  
 PRIOR FILING DATE: 1998-06-22  
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 PRIOR FILING DATE: 1998-06-22

PRIOR APPLICATION NUMBER: 60/090349  
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 PRIOR FILING DATE: 1998-06-24  
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 PRIOR APPLICATION NUMBER: 60/091626  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091633  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;  
 Best Local Similarity 99.4%; Pred. No. 4,1e-119;  
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

CQ 1 M0DEBGTITLNIKTRKPAIVSVGPASSFWRMALILILICVAVVGLVAGIWSVMQRN 60  
 DB 1 M0DEBGTITLNIKTRKPAIVSVGPASSFWRMALILILICVAVVGLVAGIWSVMQRN 60  
 CQ 61 YL0DENERTGTL00LAKRF0QYVVK0SHLKGTRKHGCSPTDNNRYYGSCYGFPRHN 120  
 DB 61 YL0DENERTGTL00LAKRF0QYVVK0SEKGTGKHGCSPTDNNRYYGSCYGFPRHN 120  
 CQ 121 LTWESKOYCTDMMATLKLKIDNNIIVYIKARTHLIHWGLSRCKSNVWKEGDSYVSE 180

Db 121 LTWBSKQYCTDMNATLTKIDNRNIVEXIKARTHLJRWVGJSPQKSNWIKWEDGSVISE 180  
Cy 181 NMFELEJGKGNMCAAYHNGSMHPTPCENKYYLMCEKAKGWTXVDLP 229  
Db 181 NMFELEJGKGNMCAAYHNGSMHPTPCENKYYLMCEKAKGWTXVDLP 229

RESULT 33  
US-09-991-157-424  
Sequence 424, Application US/09991157  
Publication No. US20030043638A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlisen, Mary B.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gunney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoli, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C51  
CURRENT APPLICATION NUMBER: US/09/991.157  
PRIOR FILING DATE: 2001-11-16  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/081106  
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PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-03  
PRIOR APPLICATION NUMBER: 60/088021  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088025  
PRIOR FILING DATE: 1998-06-04

PRIOR APPLICATION NUMBER: 60/088026  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088028  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088029  
PRIOR FILING DATE: 1998-06-04  
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PRIOR APPLICATION NUMBER: 60/088655  
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PRIOR APPLICATION NUMBER: 60/089105  
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PRIOR APPLICATION NUMBER: 60/089947  
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PRIOR APPLICATION NUMBER: 60/089948  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089952  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/090246



PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090252  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090254  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090349  
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PRIOR FILING DATE: 1998-06-25  
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PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-115;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGTITNITKTRKALVSVGPASSFWNRVVALILLICVGVAVGLGIMSVQRN 60  
DB 1 MODEDGTITNITKTRKALVSVGPASSFWNRVVALILLICVGVAVGLGIMSVQRN 60  
QY 61 YLDENENRITGLTQQLAKRCPQYVVKQSELKGTFRKHKCSPDITNMRKYDSDCYGFRFN 120

DB 61 YLDENENRITGLTQQLAKRCPQYVVKQSELKGTFRKHKCSPDITNMRKYDSDCYGFRFN 120  
QY 121 LTWESKQYCTDMATLTKIDNRNIVEYIKARTHLIRWVG:SRQKSNVWKEGDSYSE 180  
DB 121 LTWESKQYCTDMATLTKIDNRNIVEYIKARTHLIRWVG:SRQKSNVWKEGDSYSE 180  
QY 181 NMFEPLEBQKNNMCAYFHNKMAPTFCENKHYLMCSRKAGWTXVDLP 229  
DB 181 NMFEPLEBQKNNMCAYFHNKMAPTFCENKHYLMCSRKAGWTXVDLP 229

RESULT 34  
US-09-997-514-424  
Sequence 424, Application US/09997514  
Publication No. US20030049681A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Bostein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan J.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1c46  
CURRENT APPLICATION NUMBER: US/09/997,514  
PRIOR FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
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PRIOR APPLICATION NUMBER: 60/087827

PRIOR FILING DATE: 1998-06-03  
PRIOR APPLICATION NUMBER: 60/088021  
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PRIOR APPLICATION NUMBER: 60/088025  
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PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088028  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088029  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088030  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088033  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088036  
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PRIOR APPLICATION NUMBER: 60/088202  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088212  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088217  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088255  
PRIOR FILING DATE: 1998-06-09  
PRIOR APPLICATION NUMBER: 60/088734  
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PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089599  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089600  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089653  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089907  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089908  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089947  
PRIOR FILING DATE: 1998-06-19

PRIOR APPLICATION NUMBER: 60/089948  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089952  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/090246  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090252  
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PRIOR APPLICATION NUMBER: 60/090254  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090349  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090429  
PRIOR FILING DATE: 1998-06-24  
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PRIOR FILING DATE: 1998-06-24  
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PRIOR APPLICATION NUMBER: 60/090444  
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PRIOR APPLICATION NUMBER: 60/090445  
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PRIOR APPLICATION NUMBER: 60/090472  
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PRIOR APPLICATION NUMBER: 60/090535  
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PRIOR APPLICATION NUMBER: 60/090540  
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PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090576  
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PRIOR APPLICATION NUMBER: 60/090694  
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PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090862  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
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PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGCYITLNTKTRKPAIVSVGPASSFWKRVNALLILLICVGMVGLVALGIWSVQCN 60  
DB 1 MODEGCYITLNTKTRKPAIVSVGPASSFWKRVNALLILLICVGMVGLVALGIWSVQCN 60  
QY 61 YIODENENRTGT:QOLAKRCCQVYVQOSLKGTFKHKKSPPCJTWKRYGDSQCYGFRRN 120  
DB 61 YIODENENRTGT:QOLAKRCCQVYVQOSLKGTFKHKKSPPCJTWKRYGDSQCYGFRRN 120  
QY 121 LFWESKQYCTDMNATLLKIDNNRNIYEYIKARTHLIRWTGLS3OKSNEYKMKEDGSYI SE 180  
DB 121 LFWESKQYCTDMNATLLKIDNNRNIYEYIKARTHLIRWTGLS3OKSNEYKMKEDGSYI SE 180  
QY 181 NMFEPLEDEKGNMNCAYFFNNGKXHPTECENKHYLMOCERKAGMTKYDLP 229  
DB 181 NMFEPLEDEKGNMNCAYFFNNGKXHPTECENKHYLMOCERKAGMTKYDLP 229

RESULT 35  
US-09-997-573-424  
Sequence 424, Application US/09997573  
Publication No. US20030049682A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Bostein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, V. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P27301C45  
CURRENT APPLICATION NUMBER: US/09/997, 573  
PRIOR FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
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PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
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PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
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PRIOR FILING DATE: 1998-06-02

PRIOR APPLICATION NUMBER: 60/087609  
PRIOR FILING DATE: 1998-06-02  
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PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-03  
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PRIOR FILING DATE: 1998-06-04  
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PRIOR APPLICATION NUMBER: 60/089653  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089907

PRIOR FILING DATE: 1998-06-18  
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PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089947  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089948  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 225;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MODEGYYTTLNKKRKPALVSGVASSFWWEVMTLLTLCVAVVVGVAIGTSMVRN 60  
Db 1 MODEGYYTTLNKKRKPALVSGVASSFWWEVMTLLTLCVAVVVGVAIGTSMVRN 60  
Qy 61 YLQDENENRTGTLOALAKRFGQYVVKQSEIKGTGKHCSPDITNWRYYGSCYGFERRN 120  
Db 61 YLQDENENRTGTLOALAKRFGQYVVKQSEIKGTGKHCSPDITNWRYYGSCYGFERRN 120  
Qy 121 LTWERSKQYCTDMNATLTIKINRNIIVETIKRPTH:IRVVGLSRQKSNVWRKEDGCVTSE 180  
Db 121 LTWERSKQYCTDMNATLTIKIDNRNIVEYIKRPTH:IRVVGLSRQKSNVWRKEDGCVTSE 180  
Qy 181 NMFEFLBDGKGNMNCAYFHNCKMPTPCENHGYVNCERXAGVTVDDLP 229  
Db 181 NMFEFLBDGKGNMNCAYFHNCKMPTPCENHGYVNCERXAGVTVDDLP 229

RESULT 36  
US-09-991-172-424  
Sequence 424, Application US/09991172  
Publication No. US2003050457A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gunney, Austin L.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C50  
CURRENT FILING DATE: 2001-11-16  
PRIOR APPLICATION NUMBER: US/09/991,172  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600



PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DA 11; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODDGYITLTKIKRKPALVSVPASSFWFVMAILLICVGNVGVAGVAGVWQNRN 60  
Db 1 MODDGYITLTKIKRKPALVSVPASSFWFVMAILLICVGNVGVAGVAGVWQNRN 60

QY 61 YLQENENRGTLOQLAKRFQCYVYKQSELKGTGKSKCSDTNMRYGDSCTGFRHN 120  
Db 61 YLQENENRGTLOQLAKRFQCYVYKQSELKGTGKSKCSDTNMRYGDSCTGFRHN 120

QY 121 LTWESKQYCTDMNATLTKIDNENIVEYIKARTHLIRWGLSRQKSNVWKEDEGSYISE 180  
Db 121 LTWESKQYCTDMNATLTKIDNENIVEYIKARTHLIRWGLSRQKSNVWKEDEGSYISE 180

QY 181 NMEFLEDGKGNMCAFFHNCKAPPTPCENKHYLMCRKAGMTKVDLP 229  
Db 181 NMEFLEDGKGNMCAFFHNCKAPPTPCENKHYLMCRKAGMTKVDLP 229

RESULT 37  
US-09-900-726-424  
Sequence 424, Application US/0990726  
Publication No. US20030054359A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Bostein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Goddard, Audrey E.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Zan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same  
FILE REFERENCE: P2730P1C16  
CURRENT APPLICATION NUMBER: US/09/990.726  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25

PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087609  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087759  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
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PRIOR APPLICATION NUMBER: 60/088021  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088025  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088026  
PRIOR FILING DATE: 1998-06-04  
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PRIOR APPLICATION NUMBER: 60/088167  
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PRIOR APPLICATION NUMBER: 60/088212  
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PRIOR APPLICATION NUMBER: 60/088876  
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PRIOR APPLICATION NUMBER: 60/089512  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089514  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089532  
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PRIOR APPLICATION NUMBER: 60/089538  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089598

;; PRIOR FILING DATE: 1998-06-17  
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;; PRIOR APPLICATION NUMBER: 60/091478  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091544  
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;; PRIOR APPLICATION NUMBER: 60/091519  
;; PRIOR FILING DATE: 1998-07-02

;; PRIOR APPLICATION NUMBER: 60/091626  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091633  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091978  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGYITLNIKTKPALVSGPSSFWWVMAILLICVMTVGVVAGIRVMOEN 60  
DB 1 MODEGYITLNIKTKPALVSGPSSFWWVMAILLICVMTVGVVAGIRVMOEN 60  
QY 61 YLQDENERTGLQOLANRFQYVYKQSELKGTGKHKCSDDTNRVYGDSCYGFPRHN 120  
DB 61 YLQDENERTGLQOLANRFQYVYKQSELKGTGKHKCSDDTNRVYGDSCYGFPRHN 120  
QY 121 LTWESKQYCTDMNATLTKIDNENIYKRTILIRVGLSRQSNFVKWEDGSVISE 180  
DB 121 LTWESKQYCTDMNATLTKIDNENIYKRTILIRVGLSRQSNFVKWEDGSVISE 180  
QY 181 NMFEFLBDGKNNCAVFNHNGKAPTCEKNGYLMCEKAKMTVDOLP 229  
DB 181 NMFEFLBDGKNNCAVFNHNGKAPTCEKNGYLMCEKAKMTVDOLP 229

## RESULT 38

US-09-997-559-424

Sequence 424, Application US/09997559

Publication No. US20030054403A1

GENERAL INFORMATION:

;; APPLICANT: Askenazi, Avi J.  
;; APPLICANT: Baker, Kevin P.  
;; APPLICANT: Bolstein, David  
;; APPLICANT: Desnoyers, Luc  
;; APPLICANT: Eaton, Dan L.  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Fong, Sherman  
;; APPLICANT: Gerber, Hanspeter  
;; APPLICANT: Gerritsen, Mary E.  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Grimaldi, J. Christopher  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Kijavrin, Ivar J.  
;; APPLICANT: Napier, Mary A.  
;; APPLICANT: Par, James  
;; APPLICANT: Paoni, Nicholas F.  
;; APPLICANT: Roy, Margaret Ann  
;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tomas, Daniel  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE REFERENCE: P2730PIC40  
;; CURRENT APPLICATION NUMBER: US/09/997,559  
;; PRIOR FILING DATE: 2001-11-15  
;; PRIOR APPLICATION NUMBER: 60/049787  
;; PRIOR FILING DATE: 1997-06-16  
;; PRIOR APPLICATION NUMBER: 60/062250  
;; PRIOR FILING DATE: 1997-10-17  
;; PRIOR APPLICATION NUMBER: 60/065186  
;; PRIOR FILING DATE: 1997-11-12  
;; PRIOR APPLICATION NUMBER: 60/065311

[illegible]



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; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4,1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDEYITLNTKTRKPAIVSVGPASSFWRWVALTLLICVMTVGLVALGIWVSQCN 60
DB 1 MODEDEYITLNTKTRKPAIVSVGPASSFWRWVALTLLICVMTVGLVALGIWVSQCN 60
QY 61 YIODENERNRGTLLQOLAKRFGQYVVMQSELKGTPEKHKSPCDTNWRYGDSCYGFERN 120
DB 61 YIODENERNRGTLLQOLAKRFGQYVVMQSELKGTPEKHKSPCDTNWRYGDSCYGFERN 120
QY 121 LTWESKOYCTDMNATLTKIDNRNIYEYTKARTHLIRWGLSRKSNFVWKEDESVASE 180
DB 121 LTWESKOYCTDMNATLTKIDNRNIYEYTKARTHLIRWGLSRKSNFVWKEDESVASE 180
QY 181 NMFELEBDGKNMNCAYFENGXMHPTFCENKXYLMCERXAGMTXVDLP 229
DB 181 NMFELEBDGKNMNCAYFENGXMHPTFCENKXYLMCERXAGMTXVDLP 229

RESULT 39
US-09-997-601-424
; Sequence 424, Application US/09997601
; Publication No. US2003005440A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bostein, David
; APPLICANT: Deshoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gottlieb, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavlin, Yair J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Wataabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1G6
; CURRENT APPLICATION NUMBER: US/09/997,601
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
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; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
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 PRIOR FILING DATE: 1998-07-02  
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 PRIOR FILING DATE: 1998-07-01  
 PRIOR APPLICATION NUMBER: 60/091519  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091626  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091633  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; D3 11; Length 229;  
 Best Local Similarity 99.6%; Pred. No. 4, 1e-119;  
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MDEDDYITINITRKRPALVSVGPASSFWKRWALLILICGVVGLVALGIWSWQRN 60  
 Db 1 MDEDDYITINITRKRPALVSVGPASSFWKRWALLILICGVVGLVALGIWSWQRN 60  
 QY 61 YLDENENRGTGQAKRRCQYVVKOSEIKGTFGKHGKSPCDENRYGDSYGFPRN 120  
 Db 61 YLDENENRGTGQAKRRCQYVVKOSEIKGTFGKHGKSPCDENRYGDSYGFPRN 120  
 QY 121 LTWEESKQYCTDNATLTKINDENIVEYIKARTHLIRWGLSPQKSNBWKWEDGSYISE 180  
 Db 121 LTWEESKQYCTDNATLTKINDENIVEYIKARTHLIRWGLSPQKSNBWKWEDGSYISE 180  
 QY 181 NMFEELEDGKGNKCAVFFHNGXKHPFCENKHYLMCERRAKMTKVQLP 229  
 Db 181 NMFEELEDGKGNKCAVFFHNGXKHPFCENKHYLMCERRAKMTKVQLP 229

RESULT 40  
 US-09-990-443-424  
 Sequence 424, Application US/09990443  
 Publication No. US2003054587A1  
 GENERAL INFORMATION:  
 APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan U.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gertlisen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Guiney, Austin U.  
 APPLICANT: Kijavlin, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same

[illegible]

/? PRIOR FILING DATE: 1998-06-25  
/? PRIOR APPLICATION NUMBER: 60/090696  
/? PRIOR FILING DATE: 1998-06-25  
/? PRIOR APPLICATION NUMBER: 60/090862  
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/? PRIOR APPLICATION NUMBER: 60/090863  
/? PRIOR FILING DATE: 1998-06-26  
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/? PRIOR FILING DATE: 1998-07-01  
/? PRIOR APPLICATION NUMBER: 60/091478  
/? PRIOR FILING DATE: 1998-07-02  
/? PRIOR APPLICATION NUMBER: 60/091544  
/? PRIOR FILING DATE: 1998-07-01  
/? PRIOR APPLICATION NUMBER: 60/091519  
/? PRIOR FILING DATE: 1998-07-02  
/? PRIOR APPLICATION NUMBER: 60/091626  
/? PRIOR FILING DATE: 1998-07-02  
/? PRIOR APPLICATION NUMBER: 60/091633  
/? PRIOR FILING DATE: 1998-07-02  
/? PRIOR APPLICATION NUMBER: 60/091978  
/? PRIOR FILING DATE: 1998-07-07  
/? PRIOR APPLICATION NUMBER: 60/091982  
/? PRIOR FILING DATE: 1998-07-07  
/? PRIOR APPLICATION NUMBER: 60/092182  
/? PRIOR FILING DATE: 1998-07-03

Query Match 99.4% Score 1253; DB 11; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-115;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGYITLNIKTRKPLVSVGPASSFWKRVMLILLLICGVWVGLVALGMSVQCN 60  
DB 1 MODEDGYITLNIKTRKPLVSVGPASSFWKRVMLILLLICGVWVGLVALGMSVQCN 60  
QY 61 YLOENENRHTTLOOLAKRFQYVYVKQSELGTRKHKS-CCTNNMRYGDSYGFPRHN 120  
DB 61 YLOENENRHTTLOOLAKRFQYVYVKQSELGTRKHKS-CCTNNMRYGDSYGFPRHN 120  
QY 121 LTWESKQYCTDMNATLTKINRNIVETIKARTLILWGLSRKSNVWKEWEGSYISE 180  
DB 121 LTWESKQYCTDMNATLTKINRNIVETIKARTLILWGLSRKSNVWKEWEGSYISE 180  
QY 181 NMFFLEDGKGNMNCAYFHNKGKAPTECENGYLMCERKAKMTKVDDLP 229  
DB 181 NMFFLEDGKGNMNCAYFHNKGKAPTECENGYLMCERKAKMTKVDDLP 229

RESULT 41  
US-09-991-854-424  
/? Sequence 424; Application US/09991854  
/? Publication No. US20030059780A1  
/? GENERAL INFORMATION:  
/? APPLICANT: Ashkenazi, Avi J.  
/? APPLICANT: Baker, Kevin P.  
/? APPLICANT: Botstein, David  
/? APPLICANT: Desnovers, Luc  
/? APPLICANT: Batou, Dan L.  
/? APPLICANT: Ferrara, Napoleone  
/? APPLICANT: Fong, Sherman  
/? APPLICANT: Gerber, Hanspeter  
/? APPLICANT: Gertlisen, Mary E.  
/? APPLICANT: Goddard, Audrey  
/? APPLICANT: Godowski, Paul J.  
/? APPLICANT: Grimaldi, J. Christopher  
/? APPLICANT: Gurney, Austin L.  
/? APPLICANT: Kijavrin, Ivar J.  
/? APPLICANT: Napier, Mary A.  
/? APPLICANT: Pan, James  
/? APPLICANT: Paoni, Nicholas P.  
/? APPLICANT: Roy, Margaret Ann  
/? APPLICANT: Stewart, Timothy A.  
/? APPLICANT: Tumas, Daniel  
/? APPLICANT: Watanabe, Colin X.

/? APPLICANT: Williams, P. Mickey  
/? APPLICANT: Wood, William I.  
/? APPLICANT: Zhang, Zemin  
/? TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
/? TITLE OF INVENTION: Acids Encoding the Same  
/? FILE REFERENCE: P2730P1C24  
/? CURRENT APPLICATION NUMBER: US/09/991,854  
/? PRIOR FILING DATE: 2001-11-14  
/? PRIOR APPLICATION NUMBER: 60/049787  
/? PRIOR FILING DATE: 1997-06-16  
/? PRIOR APPLICATION NUMBER: 60/062250  
/? PRIOR FILING DATE: 1997-10-17  
/? PRIOR APPLICATION NUMBER: 60/065186  
/? PRIOR FILING DATE: 1997-11-12  
/? PRIOR APPLICATION NUMBER: 60/065311  
/? PRIOR FILING DATE: 1997-11-13  
/? PRIOR APPLICATION NUMBER: 60/066770  
/? PRIOR FILING DATE: 1997-11-24  
/? PRIOR APPLICATION NUMBER: 60/075945  
/? PRIOR FILING DATE: 1998-02-25  
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/? PRIOR FILING DATE: 1998-06-02  
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 / PRIOR APPLICATION NUMBER: 60/091982  
 / PRIOR FILING DATE: 1998-07-07  
 / PRIOR APPLICATION NUMBER: 60/092182  
 / PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;  
 Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MOEDDGYITNTIKTKKALYSVGPASSFWNRVVALILILICSVNVGLALGWSVQNR 60  
 Db 1 MOEDGYITNTIKTKKALYSVGPASSFWNRVVALILILICSVNVGLALGWSVQNR 60  
 QY 61 YLQDENENRGTGTOQLAKRCCQYVVKOSEIKGTFKHKSCPCDTNMWYGGDSCTGFPRHN 120  
 Db 61 YLQDENENRGTGTOQLAKRCCQYVVKOSEIKGTFKHKSCPCDTNMWYGGDSCTGFPRHN 120  
 QY 121 LTWESKQCYCTDMNATLLKIDNRNIVEYIKARFHLIHWGLSRQSKSEWVKWEDGSYISE 180  
 Db 121 LTWESKQCYCTDMNATLLKIDNRNIVEYIKARFHLIHWGLSRQSKSEWVKWEDGSYISE 180  
 QY 181 NMFEPLEDGKGNKNCAYFHNKXHPFCNKHAYLMCEBKAQGMTKVDLP 229  
 Db 181 NMFEPLEDGKGNKNCAYFHNKXHPFCNKHAYLMCEBKAQGMTKVDLP 229

RESULT 42  
 US-09-97-628-424  
 ; Sequence 424, Application US/09997628  
 ; Publication No. US20030059782A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Batson, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Geritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C30  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: US/09/997,628  
PRIOR FILING DATE: 1997-06-15  
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PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1251; DB 11; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;  
Matches 229; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MDEDEGTTNTIKTKRPALVSVGPASSFWWRVVALILLICVGVVGLVNLGWSWQRY 60  
Db 1 MDEDEGTTNTIKTKRPALVSVGPASSFWWRVVALILLICVGVVGLVNLGWSWQRY 60  
QY 61 YLDENENRTGLIQLAKRRCQYVVKQSS-KGTFKQHKSPCCDNNRYGDSCYGFPERN 120  
Db 61 YLDENENRTGLIQLAKRRCQYVVKQSS-KGTFKQHKSPCCDNNRYGDSCYGFPERN 120  
QY 121 LTMESKQYCTDMNATILKIDNENIYVYKATHLIRWGLSRQKSNVWKWEDGSVISE 180  
Db 121 LTMESKQYCTDMNATILKIDNENIYVYKATHLIRWGLSRQKSNVWKWEDGSVISE 180  
QY 181 NMFEFJEDGKNNCAVFNKGKHPFCCKKHVLMGERAKGTRVQLP 229  
Db 181 NMFEFJEDGKNNCAVFNKGKHPFCCKKHVLMGERAKGTRVQLP 229

RESULT 43  
US-09-997-683-424  
Sequence 424, Application US/09997683  
Publication No. US20030059783A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher  
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APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napier, Mary A.  
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APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC32  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: US/09/997,683  
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/ PRIOR FILING DATE: 1998-06-26
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/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/091982
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/092182
/ PRIOR FILING DATE: 1998-07-09
/ PRIOR APPLICATION NUMBER: 60/090540
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/ PRIOR APPLICATION NUMBER: 60/091633
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091978
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/091982
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/092182
/ PRIOR FILING DATE: 1998-07-09
Query Match 99.4%; Score 1253; DB 11; Length 229;
Best Local Similarity 99.6%; Pred. No. 4.1e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MODEDGYITLINTKRXALVSGPASSFWRRVALLILICVGVVGLVALGWSVQRN 60
Db 1 MODEDGYITLINTKRPALVSGPASSWKRVALILILICVGVVGLVALGWSVQRN 60
QY 61 YLDENENRTGTLOQLAKRQCQYVVKQSELKGTFKGKCSPCDITNRYVGDSCYGFRRN 120
Db 61 YLDENENRTGTLOQLAKRQCQYVVKQSELKGTFKGKCSPCDITNRYVGDSCYGFRRN 120
QY 121 LTWESKQVCTDMNALLTKIDNENIVEYTKARHLLRMVGLSKQKNEVWKWDGVSYSR 180
Db 121 LTWESKQVCTDMNALLTKIDNENIVEYTKARHLLRMVGLSKQKNEVWKWDGVSYSR 180
QY 181 NMFEFLDEGKNNKCAVFNHGXHPPTFCENKHYLMCERXAGMTKVDLP 229
Db 181 NMFEFLDEGKNNKCAVFNHGXHPPTFCENKHYLMCERXAGMTKVDLP 229
RESULT 44
US-09-989-729A-424
/ Sequence 424, Application US/09989729A
/ Publication No. US20030059831A1
/ GENERAL INFORMATION:
/ APPLICANT: Ashkenazi, Avi J.
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan L.
/ APPLICANT: Ferrara, Napoleone
```



APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerttsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Goddard, Paul J.  
APPLICANT: Grimaldi, V. Christopher  
APPLICANT: Guiney, Austin L.  
APPLICANT: Kijavik, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zhen  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C59  
CURRENT APPLICATION NUMBER: US/09/989,729A  
CURRENT FILING DATE: 2001-11-18  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
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PRIOR APPLICATION NUMBER: 60/088555  
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PRIOR APPLICATION NUMBER: 60/088734  
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;  
Best Local Similarity 99.6%; P-red. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGYITLNIKIRKPAIVSVGPASSFWRVMAIILILICVAVVGLVAGIWSVQPN 60  
DB 1 MODEDGYITLNIKIRKPAIVSVGPASSFWRVMAIILILICVAVVGLVAGIWSVQPN 60  
QY 61 VIADENENRGTLOOLAKRFGQYVVKOSHLKGTENGKOSPCDITWRYVYGS CYGFFPHN 120  
DB 61 VIADENENRGTLOOLAKRFGQYVVKOSHLKGTENGKOSPCDITWRYVYGS CYGFFPHN 120  
QY 121 LTWESKQYCTDMNATLTKIDNRNTVEYIKARTHLIRWVGSROKSNEVWKWEDGSVISE 180  
DB 121 LTWESKQYCTDMNATLTKIDNRNTVEYIKARTHLIRWVGSROKSNEVWKWEDGSVISE 180  
QY 181 NMFEPIEDGKNNNCAYFNGKMGHPFCNKNYILMCCERAGMTKYDOLP 229  
DB 181 NMFEPIEDGKNNNCAYFNGKMGHPFCNKNYILMCCERAGMTKYDOLP 229

RESULT 45  
US-09-997-349-424  
Sequence 424, Application US/09997349  
Publication No. US20030059832A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCES: P2730P1C37  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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PRIOR FILING DATE: 1997-10-17  
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;; PRIOR APPLICATION NUMBER: 60/090435  
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;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091978  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 M0SDGYITNITRKRAIVSVGPASSFWRRVVALILLICVGNVGLVALIGTSVQNRN 60  
|||  
Db 1 M0SDGYITNITRKRAIVSVGPASSFWRRVVALILLICVGNVGLVALIGTSVQNRN 60  
|||  
Qy 61 YL0DENENRGTLOQLAKRFQYVYX0SEILKGTFGKJCSPCDTNFWYVYSGCYGFFRRN 120  
|||  
Db 61 YL0DENENRGTLOQLAKRFQYVYX0SEILKGTFGKJCSPCDTNFWYVYSGCYGFFRRN 120  
|||  
Qy 121 LTWESKQYCTDMNATYTLKIDNRNIVEYIARTHLIRWGLSROKSNEVWKEDGSYISE 180  
|||  
Db 121 LTWESKQYCTDMNATYTLKIDNRNIVEYIARTHLIRWGLSROKSNEVWKEDGSYISE 180  
|||  
Qy 181 NMEEFLDGGKNNKCAFEHNGKXAPTECEKXHYLMCEKXGKMTKVDLP 229  
|||  
Db 181 NMEEFLDGGKNNKCAFEHNGKXAPTECEKXHYLMCEKXGKMTKVDLP 229  
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RESULT 46

US-09-97-440-424  
 ; Sequence 424, Application US/09997440  
 ; Publication No. US2003005983A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gertsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kijavits, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; FILE REFERENCE: P2730P1C31  
 ; CURRENT FILING DATE: 2001-11-15  
 ; PRIOR APPLICATION NUMBER: 60/049787  
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;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DA 11; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;

Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGYITLNIKTRKPAIVSVGPASSFWKVMALITLITGVWVVGVALGMSVQNRN 60  
DB 1 MODEDGYITLNIKTRKPAIVSVGPASSFWKVMALITLITGVWVVGVALGMSVQNRN 60  
QY 61 YLQENENRRTGTLOQLARFCQYVYKQSELGKTRKHKSCPTNNMRYGDSCTGFRPHN 120  
DB 61 YLQENENRRTGTLOQLARFCQYVYKQSELGKTRKHKSCPTNNMRYGDSCTGFRPHN 120  
QY 121 LTWESKQYCTDNANATLTKINDRNITVEYIKARTHLIRVVGSRQKSNVWMEHDSVISE 180  
DB 121 LTWESKQYCTDNANATLTKINDRNITVEYIKARTHLIRVVGSRQKSNVWMEHDSVISE 180  
QY 181 NMEFFLEDDGKNNKCAVFNHGKMHPTFCENKHYLMCKERKAGMTVDLP 229

DB 181 NMEFFLEDDGKNNKCAVFNHGKMHPTFCENKHYLMCKERKAGMTVDLP 229  
RESULT 47  
US-09-990-440-424  
Sequence 424, Application US/09990440  
Publication No. US20030060407A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertlisen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavitt, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C21  
CURRENT APPLICATION NUMBER: US/09/990,440  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 229; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB : MODEGGYITLNIKTRKPAIVSGPSSPFMRVMAIILILCVGNVVGIVAGIWSVQRN 60  
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DB 61 YLQDENNRGTGLQILARFCQYVVKQSELGTGFKGHCSPCDTNWRYGDSVCGEPFRN 120

QY 121 LTWESKQYCTMDNATLTKIDRNIVEYIKATHTLIRWGLSRQKSNVEWKEWEDGSVSE 180  
D6 121 LTWESKQYCTMDNATLTKIDRNIVEYIKATHTLIRWGLSRQKSNVEWKEWEDGSVSE 180  
QY 181 NMFEFLDQKGNMNCAYFHNGKAPFTFCENKXYLMCCERRAGMCTKYDOLP 229  
D6 181 NMFEFLDQKGNMNCAYFHNGKAPFTFCENKXYLMCCERRAGMCTKYDOLP 229

## RESULT 48

US-09-993-469-424  
Sequence 424, Application US/09993469  
Publication No. US20030068623A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Bolstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
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APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLES OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730PICS  
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CURRENT FILING DATE: 2001-11-14  
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PRIOR APPLICATION NUMBER: 60/089947  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089948  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089952

PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/090246  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090252  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090254  
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PRIOR APPLICATION NUMBER: 60/090355  
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PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090431  
PRIOR FILING DATE: 1998-06-24  
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PRIOR APPLICATION NUMBER: 60/090444  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090445  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090472  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090535  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090540  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090542  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090676  
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PRIOR FILING DATE: 1998-06-25  
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PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090694  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090695  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090696  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090862  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4,1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGGYITLNIKTKRPAIVSVGPASSFWRVNALLILLCVGVVGVGALGINSVMORN 60  
DB 1 MODEGGYITLNIKTKRPAIVSVGPASSFWRVNALLILLCVGVVGVGALGINSVMORN 60

QY 61 YLDENENNRGTITQGIAPFCQYIVVKOSLKGTFKCHKOSPCDITMRYIGDSYGFRRN 120  
DB 61 YLDENENNRGTITQGIAPFCQYIVVKOSLKGTFKCHKOSPCDITMRYIGDSYGFRRN 120  
QY 121 LTMESKQYCTDMNATLKTENDNITVEYIKARTHLIRMGSLRQKSNZYMKMGDSGISR 180  
DB 121 LTMESKQYCTDMNATLKTENDNITVEYIKARTHLIRMGSLRQKSNZYMKMGDSGISR 180  
QY 181 NMFEFLJEDGKNNKCAVFNNGKXHPFCENKHYLMGCRKAGMTKVDLP 229  
DB 181 NMFEFLJEDGKNNKCAVFNNGKXHPFCENKHYLMGCRKAGMTKVDLP 229

RESULT 49  
US-09-597-542-424  
Sequence 424, Application US/0997542  
Publication No. US20030068647A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C26  
CURRENT APPLICATION NUMBER: US/09/997,542  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087609  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087759



1	PRIOR FILING DATE: 1998-06-02	PRIOR APPLICATION NUMBER: 60/087827
2	PRIOR FILING DATE: 1998-06-03	PRIOR APPLICATION NUMBER: 60/088021
3	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088025
4	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088026
5	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088028
6	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088029
7	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088030
8	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088033
9	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088366
10	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088157
11	PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088202
12	PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088212
13	PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088217
14	PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088655
15	PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088734
16	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088738
17	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088742
18	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088810
19	PRIOR FILING DATE: 1998-06-11	PRIOR APPLICATION NUMBER: 60/088824
20	PRIOR FILING DATE: 1998-06-11	PRIOR APPLICATION NUMBER: 60/088826
21	PRIOR FILING DATE: 1998-06-12	PRIOR APPLICATION NUMBER: 60/089105
22	PRIOR FILING DATE: 1998-06-12	PRIOR APPLICATION NUMBER: 60/089440
23	PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089512
24	PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089544
25	PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089546
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27	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089532
28	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089538
29	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089598
30	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089599
31	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089600
32	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089633
33	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089635
34	PRIOR FILING DATE: 1998-06-18	PRIOR APPLICATION NUMBER: 60/089902
35	PRIOR FILING DATE: 1998-06-18	PRIOR APPLICATION NUMBER: 60/089907
36	PRIOR FILING DATE: 1998-06-18	PRIOR APPLICATION NUMBER: 60/089968
37	PRIOR FILING DATE: 1998-06-18	PRIOR APPLICATION NUMBER: 60/089968
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1	ERROR APPLICATION NUMBER: 60/088947
2	ERROR FILING DATE: 1998-06-19
3	ERROR APPLICATION NUMBER: 60/088948
4	ERROR FILING DATE: 1998-06-19
5	ERROR APPLICATION NUMBER: 60/088952
6	ERROR FILING DATE: 1998-06-19
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12	ERROR FILING DATE: 1998-06-22
13	ERROR APPLICATION NUMBER: 60/090349
14	ERROR FILING DATE: 1998-06-23
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18	ERROR FILING DATE: 1998-06-24
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33	ERROR APPLICATION NUMBER: 60/090542
34	ERROR FILING DATE: 1998-06-24
35	ERROR APPLICATION NUMBER: 60/090557
36	ERROR FILING DATE: 1998-06-24
37	ERROR APPLICATION NUMBER: 60/090676
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39	ERROR APPLICATION NUMBER: 60/090678
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41	ERROR APPLICATION NUMBER: 60/090690
42	ERROR FILING DATE: 1998-06-25
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45	ERROR APPLICATION NUMBER: 60/090695
46	ERROR FILING DATE: 1998-06-25
47	ERROR APPLICATION NUMBER: 60/090696
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49	ERROR APPLICATION NUMBER: 60/090682
50	ERROR FILING DATE: 1998-06-26
51	ERROR APPLICATION NUMBER: 60/090863
52	ERROR FILING DATE: 1998-06-26
53	ERROR APPLICATION NUMBER: 60/091360
54	ERROR FILING DATE: 1998-07-01
55	ERROR APPLICATION NUMBER: 60/091478
56	ERROR FILING DATE: 1998-07-02
57	ERROR APPLICATION NUMBER: 60/091544
58	ERROR FILING DATE: 1998-07-01
59	ERROR APPLICATION NUMBER: 60/091519
60	ERROR FILING DATE: 1998-07-02
61	ERROR APPLICATION NUMBER: 60/091626
62	ERROR FILING DATE: 1998-07-02
63	ERROR APPLICATION NUMBER: 60/091633
64	ERROR FILING DATE: 1998-07-02
65	ERROR APPLICATION NUMBER: 60/091978
66	ERROR FILING DATE: 1998-07-02
67	ERROR APPLICATION NUMBER: 60/091982
68	ERROR FILING DATE: 1998-07-02
69	ERROR APPLICATION NUMBER: 60/092182
70	ERROR FILING DATE: 1998-07-09

Query Match	99.4%	Score 1253;	DB 11;	Length 229;
Best Local Similarity	99.6%	Pred. No. 4.1e-119;		

Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEGYITINIKRKPAIVSVGPASSFWNRVVALILLVGVVGLVALGIMSVQRN 60  
DB 1 M03BDGTTINIKRKPAIVSVGPASSFWNRVVALILLVGVVGLVALGIMSVQRN 60

QY 61 YL0DENNRRTGTLQOLAKRCQYVVKQSELKGTFRKSKSPCDTNMRYGDSCTGPRRN 120  
DB 61 YL0DENNRRTGTLQOLAKRCQYVVKQSELKGTFRKSKSPCDTNMRYGDSCTGPRRN 120

QY 121 LTMESKQYCTDMWATLLKIDNRNIVEYIKARTHLISWGLSPKSNVWKMGDSYISE 180  
DB 121 LTMESKQYCTDMWATLLKIDNRNIVEYIKARTHLISWGLSPKSNVWKMGDSYISE 180

QY 181 NMPEFLDGGKNNMCAYFNGKMHPTFCENKHYLMCKERKAGMTKVQQLP 229  
DB 181 NMPEFLDGGKNNMCAYFNGKMHPTFCENKHYLMCKERKAGMTKVQQLP 229

RESULT 50  
US-09-993-748-424  
Sequence 424, Application US/09993748  
Publication No. US20030069403A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertelsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gunney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730PIC23  
CURRENT APPLICATION NUMBER: US/09/993,748  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
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PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28

PRIOR APPLICATION NUMBER: 60/087607  
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PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087759  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-03  
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PRIOR APPLICATION NUMBER: 60/088025  
PRIOR FILING DATE: 1998-06-04  
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PRIOR APPLICATION NUMBER: 60/089598  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089599  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089600  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089653  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089801

PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089907  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089908  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089947  
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PRIOR APPLICATION NUMBER: 60/090349  
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PRIOR APPLICATION NUMBER: 60/090355  
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PRIOR FILING DATE: 1998-06-24  
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PRIOR APPLICATION NUMBER: 60/090472  
PRIOR FILING DATE: 1998-06-24  
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PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
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PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07

PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1253; DB 11; Length 229;  
Best Local Similarity 99.6%; Pred. No. 4, 1e-119;  
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MDEDEGYITLNIKTRKPLVSVGPASSFWFWMAIIILLCVGVVGLVALGIKSVQPN 60  
DB 1 MDEDEGYITLNIKTRKPLVSVGPASSFWFWMAIIILLCVGVVGLVALGIKSVQPN 60  
QY 61 YLQDENENRGTGLQOLAKRSCQYVVKQSEIKGTFPGHCKSPCDTNRVRYGDSVGFPPHN 120  
DB 61 YLQDENENRGTGLQOLAKRSCQYVVKQSEIKGTFPGHCKSPCDTNRVRYGDSVGFPPHN 120  
QY 121 LTWESKQYCTDMNATILKIDNRNIVEYIKARITHLIRWGLSRQKSNFVWKWEDGSVISE 180  
DB 121 LTWESKQYCTDMNATILKIDNRNIVEYIKARITHLIRWGLSRQKSNFVWKWEDGSVISE 180  
QY 181 NMFEFLBCKGNMCAVPHNGKMEPTFCENKHVLMCEKKAQNTKVDLP 229  
DB 181 NMFEFLBCKGNMCAVPHNGKMEPTFCENKHVLMCEKKAQNTKVDLP 229

Search completed: December 3, 2003, 08:49:10  
Job time : 33 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw mode.

Run on: December 3, 2003, 08:42:22 ; Search time 41 Seconds

(without alignments)  
886.546 Million cell updates/sec

Title: US-09-903-190-97

Perfect score: 1261

Sequence: 1 MODSDGYITLTKIKRKPLV.....NKHYLMCRKAKMTKVDLP 229

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1107863 seqs, 156726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : A\_Geneseq.190un03.\*

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2: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1981.DAT.\*  
3: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1982.DAT.\*  
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24: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2003.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1261	100.0	229	20	AA159666
2	1253	99.4	229	21	AA166765
3	1253	99.4	229	22	AA112432
4	1253	99.4	229	22	AA1665288
5	1253	99.4	229	24	ABU666810
6	1253	99.4	229	24	ABU67106
7	1253	99.4	229	24	ABU59911
8	1253	99.4	229	24	ABU59181
9	1253	99.4	229	24	ABU59328

10	1253	99.4	229	24	ABU59477	Novel human secret
11	1253	99.4	229	24	ABU60612	Human secreted/tr
12	1253	99.4	229	24	ABU58103	Human PRO polypept
13	1253	99.4	229	24	ABU59034	Human secreted/tr
14	1253	99.4	229	24	ABU13994	Human PRO1384 poly
15	1253	99.4	229	24	ABU10945	Human PRO polypept
16	1245	96.7	229	23	ABP43587	Membrane bound pro
17	1245	98.7	229	24	ABR39424	Human GENSER polyp
18	1231.5	97.7	228	24	AAU02495	Human secreted pro
19	1212.5	96.2	257	22	AAU25751	Human protein sequ
20	776	61.5	229	22	AAU02496	Murine secreted pr
21	352.5	28.0	280	20	AAU05317	Human secreted pro
22	352.5	28.0	280	21	AAU2619	Human ORFX ORP383
23	352.5	28.0	280	21	AAU66728	Membrane-bound pro
24	352.5	28.0	280	22	AAE11932	Human CG27 (or C86
25	352.5	28.0	280	22	AAE11938	Human lipid metabo
26	352.5	28.0	280	22	AAU29324	Human PRO polypept
27	352.5	28.0	280	22	AAU93544	Human polypeptide,
28	352.5	28.0	280	22	AAU12400	Human PRO1131 poly
29	352.5	28.0	280	22	AAU65251	Human PRO1131 (UNQ
30	352.5	28.0	280	22	AAU50959	Human PRO1131 prot
31	352.5	28.0	280	23	ABP64809	Human protein SBQ
32	352.5	28.0	280	23	ABP39505	Human angio genesis
33	352.5	28.0	280	23	ABP84899	Human PRO1131 prot
34	352.5	28.0	280	24	ABU71412	Human PRO1131 prot
35	352.5	28.0	280	24	ABU71425	Human neoplasia in
36	352.5	28.0	280	24	ABU65869	Human secreted/tr
37	352.5	28.0	280	24	ABU66202	Novel human secret
38	352.5	28.0	280	24	ABU66798	Human PRO polypept
39	352.5	28.0	280	24	ABU67074	Human secreted/tr
40	352.5	28.0	280	24	ABU67706	Human secreted/tr
41	352.5	28.0	280	24	ABU58979	Novel secreted and
42	352.5	28.0	280	24	ABU65564	Human PRO polypept
43	352.5	28.0	280	24	ABU55144	Novel human secret
44	352.5	28.0	280	24	ABU59291	Human secreted/tr
45	352.5	28.0	280	24	ABU59440	Novel human secret
46	352.5	28.0	280	24	ABU60575	Human secreted/tr
47	352.5	28.0	280	24	ABU58066	Human PRO polypept
48	352.5	28.0	280	24	ABU58700	Human PRO polypept
49	352.5	28.0	280	24	ABU58997	Human secreted/tr
50	352.5	28.0	280	24	ABU56236	Human secreted/tr
51	352.5	28.0	280	24	ABU57231	Human PRO polypept
52	352.5	28.0	280	24	ABU13957	Human PRO1131 poly
53	352.5	28.0	280	24	ABU10810	Human secreted/tr
54	352.5	28.0	280	24	ABU10912	Human PRO polypept
55	350.5	27.8	284	22	AAU31622	Human oxidised LDL
56	339	26.9	307	22	AAE11939	Human lipid metabo
57	339	26.9	307	22	ABP64810	Human protein SBQ
58	339	26.9	314	22	AAE11933	Human CG27 (or C86
59	326.5	25.9	288	22	AAE11926	NOVX related prote
60	309	24.5	268	24	ABU13327	Human secreted/pro
61	309	24.5	275	24	ABU13327	Human secreted/pro
62	299.5	23.8	247	20	AAU27448	Human SDGP4 poly
63	299.5	23.8	247	20	AAU73889	Human DC3 protein
64	299.5	23.8	247	24	ABP82496	Human DC3 polypept
65	299.5	23.8	247	24	ABP82496	Human DC3 polypept
66	291	23.1	247	22	AAE11934	Human CG27 (or C86
67	286	22.8	244	19	AAU63009	Mouse dectin-1. M
68	286	22.8	244	19	ABP82844	Mouse dectin-1. M
69	283.5	22.5	201	20	AAU27449	Human SDGP4 short
70	280.5	22.2	201	19	AAU52837	Human C-type lecti
71	279.5	22.2	201	20	AAU1764	Human PRO1082 prot
72	279.5	22.2	201	20	AAU73888	Human DC3 protein
73	279.5	22.2	201	21	AAU43320	Human PRO1082 (UNQ
74	279.5	22.2	201	22	AAU29077	Human PRO polypept
75	279.5	22.2	201	22	ABP90372	Human polypeptide
76	279.5	22.2	201	24	ABU71165	Human PRO1082 prot
77	279.5	22.2	201	24	ABU65622	Human secreted/tr
78	279.5	22.2	201	24	ABU65855	Novel human secret
79	279.5	22.2	201	24	ABU67459	Human secreted/tr
80	279.5	22.2	201	24	ABU61150	Human PRO1082 poly
81	279.5	22.2	201	24	ABU65317	Human PRO polypept
82	279.5	22.2	201	24	ABU58453	Human PRO polypept

83	279.5	22.2	201	24	ABU55989	Human secreted/tra
84	279.5	22.2	201	24	ABU56984	Human PRO polypept
85	279.5	22.2	201	24	ABU58283	Human Decitin-1 pol
86	279.5	22.2	201	24	ABU10563	Human secreted/tra
87	279.5	22.2	201	24	ABU82495	ILR-J24-1 polypept
88	277.5	22.0	281	22	AAE11943	Human CG27 (or C86
89	274	21.7	289	22	ABE11776	Human macrophage A
90	274	21.7	289	22	AAW79324	Human protein SBO
91	266.5	21.1	278	22	AAE58871	O. cuniculus LOX-1
92	265	21.0	265	20	AAW02283	Secreted protein c
93	265	21.0	265	22	AAW78340	Human protein SBO
94	265	21.0	265	23	ABE08507	Human C-type lecti
95	264	20.9	272	19	AAW40215	Human macrophage a
96	263.5	20.9	248	21	AAW47087	Human secreted pro
97	263.5	20.9	248	22	AAW33892	Human BGT encoded
98	263.5	20.9	248	22	AAE06064	Human gene 24 enco
99	263.5	20.9	248	23	ABG33886	Human secreted pro
100	255.5	20.3	199	19	AAW63016	Mouse decitin-1 iso

## ALIGNMENTS

RESULT 1  
ID AA59666 standard; Protein; 229 AA.

AA59666;

19-JAN-2000 (first entry)

Secreted protein 108-004-5-0-G6-FL.

Secreted protein; fingerprint identification technique;  
chromosome mapping; human; hereditary disease; diagnosis; cancer;  
hyperlipidaemia; cardiovascular; neurodegenerative disorder; therapy;  
autoimmune disease; rheumatic disease; embryonic disorder; myopathy;  
renal injury; amino aciduria; hypoglycaemia; male rat infertility;  
hypertension.

Homo sapiens.

WO9940189-A2.

12-AUG-1999.

09-FEB-1999; 99WO-1B00282.

09-FEB-1998; 98US-0074121.

13-APR-1998; 98US-0081563.

10-AUG-1998; 98US-0095116.

04-SEP-1998; 98US-0095273.

(GENSET) GENSET.

Bougueleret L, Duclert A, Dumas Milne Edwards J;

WPI; 1999-600366/51.

N-PSDB; AAZ40794.

Extended cDNAs useful for expressing secreted proteins and to obtain

specific antibodies -

Claim 10; Page 194-195; 244pp; English.

This sequence represents a human secreted protein of the invention.  
The extended cDNAs (or genomic DNAs obtainable from them) may be used to  
prepare PCR primers and probes. These are useful for forensic matching or  
positive identification by DNA sequencing. They may also be used in  
alternative fingerprint identification techniques. Antibodies against the  
proteins encoded by the extended cDNAs are useful in identification of  
tissue types or cell species, as well as identifying tissue specific  
soluble proteins. The sequences can be used for chromosome mapping and

identification of genes associated with hereditary diseases or drug  
response. signal sequences from the cDNAs can be used in construction of  
secretion vectors. Other sequences derived from the extended cDNAs can be  
used to clone upstream genomic DNA sequences including promoters. This is  
in turn useful for identifying proteins that interact with promoter  
sequences. Some of the proteins may be useful in diagnosing and treating  
several disorders including, but not limited to: cancer, hyperlipidaemia,  
cardiovascular and neurodegenerative disorders, autoimmune diseases, and  
renal diseases, embryonic disorders, hypertension, renal injury,  
amino acidurias, hypoglycaemia, male rat infertility and myopathies.

Query Match 100.0%; Score 1261; DB 20; Length 229;  
Best Local Similarity 100.0%; Pred. No. 1e-119;  
Matches 229; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MOEDGTYITNITKRPALVSGPASPFWNRVALLILICVGVVGLVALGIVSVQRN 60  
1 MOEDGTYITNITKRPALVSGPASPFWNRVALLILICVGVVGLVALGIVSVQRN 60

61 YLDDENENRTGLQOLAKRPGQYVVGSELKGFKGKSPDCTNWRYYDSCYGFPRN 120  
61 YLDDENENRTGLQOLAKRPGQYVVGSELKGFKGKSPDCTNWRYYDSCYGFPRN 120

121 LTWEESQYCTDMNATLKTIDNENIVHYTARHTLRVGLSPQKSEWKKWEDGSYSE 180  
121 LTWEESQYCTDMNATLKTIDNENIVHYTARHTLRVGLSPQKSEWKKWEDGSYSE 180

181 NPEFLEDGKNNMCAFYENGKXKPTCEKXHYLMCEKXKAGTKVDLP 229  
181 NPEFLEDGKNNMCAFYENGKXKPTCEKXHYLMCEKXKAGTKVDLP 229

RESULT 2  
ID AA66765 standard; protein; 229 AA.

AA66765;

05-APR-2000 (first entry)

Membrane-bound protein PRO1384.

Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand;

pharmaceutical; receptor immunoadhesin; gene mapping.

Homo sapiens.

WO9963088-A2.

09-DEC-1999.

02-JUN-1999; 99WO-US12252.

02-JUN-1998; 98US-0087607.

02-JUN-1998; 98US-0087609.

02-JUN-1998; 98US-0087755.

03-JUN-1998; 98US-0087827.

04-JUN-1998; 98US-0088021.

04-JUN-1998; 98US-0088025.

04-JUN-1998; 98US-0088028.

04-JUN-1998; 98US-0088029.

04-JUN-1998; 98US-0088030.

04-JUN-1998; 98US-0088033.

04-JUN-1998; 98US-0088326.

05-JUN-1998; 98US-0088167.

05-JUN-1998; 98US-0088202.

05-JUN-1998; 98US-0088212.

05-JUN-1998; 98US-0088217.

09-JUN-1998; 98US-0088655.

10-JUN-1998; 98US-0088722.

10-JUN-1998; 98US-0088730.

PR	10-JUN-1998;	98US-0088734.
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PR	10-JUN-1998;	98US-0088740.
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PR	10-JUN-1998;	98US-0088826.
PR	11-JUN-1998;	98US-0088858.
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PR	12-JUN-1998;	98US-0088905.
PR	16-JUN-1998;	98US-0088940.
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PR	17-JUN-1998;	98US-0089005.
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PR	18-JUN-1998;	98US-0089008.
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PR	22-JUN-1998;	98US-0090246.
PR	22-JUN-1998;	98US-0090252.
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PR	23-JUN-1998;	98US-0090355.
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PR	24-JUN-1998;	98US-0090540.
PR	25-JUN-1998;	98US-0090557.
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PR	26-JUN-1998;	98US-0090862.
PR	26-JUN-1998;	98US-0090865.
PR	01-JUL-1998;	98US-0091358.
PR	01-JUL-1998;	98US-0091360.
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PR	02-JUL-1998;	98US-0091478.
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PR	02-JUL-1998;	98US-0091519.
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PR	02-JUL-1998;	98US-0091628.
PR	02-JUL-1998;	98US-0091633.
PR	02-JUL-1998;	98US-0091646.
PR	07-JUL-1998;	98US-0091673.
PR	07-JUL-1998;	98US-0091978.
PR	09-JUL-1998;	98US-0091982.
PR	10-JUL-1998;	98US-0092182.
PR	10-JUL-1998;	98US-0092472.
PR	20-JUL-1998;	98US-0093335.

PR	30-AUG-1998;	98US-0094551.
PR	04-AUG-1998;	98US-0095282.
PR	04-AUG-1998;	98US-0095285.
PR	04-AUG-1998;	98US-0095301.
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PR	12-AUG-1998;	98US-0096146.
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PR	20-AUG-1998;	98US-0097218.
PR	24-AUG-1998;	98US-0097661.
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PR	26-AUG-1998;	98US-0097952.
PR	26-AUG-1998;	98US-0097954.
PR	26-AUG-1998;	98US-0097955.
PR	26-AUG-1998;	98US-0097971.
PR	26-AUG-1998;	98US-0097974.
PR	26-AUG-1998;	98US-0097978.
PR	26-AUG-1998;	98US-0097979.
PR	26-AUG-1998;	98US-0097985.
PR	26-AUG-1998;	98US-0098014.
PR	31-AUG-1998;	98US-0098523.
PR	16-SEP-1998;	98US-0100634.
PR	12-JAN-1999;	98US-0115565.
XX	(GETH ) GENENTECH INC.	
XX		
PI	Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;	
ZI	Wood WT, Yuan J;	
XX	WPI; 2000-072883/06.	
DR	N-PSDB; AA265111.	
XX		
DR	Membrane-bound proteins and related nucleotide sequences -	
XX		
PS	claim 12; Fig 306; 822pp; English.	
XX		
CC	The invention provides membrane-bound PRO polypeptides and	
CC	polynucleotides encoding them. The PRO sequences of the invention were	
CC	identified based on extracellular domain homology screening. The PRO	
CC	sequences have homology with proteins including LDL receptors, T1E	
CC	ligands and various enzymes. The membrane-bound proteins and receptor	
CC	molecules are useful as pharmaceutical and diagnostic agents. Receptor	
CC	immunoadjuvants, for instance, can be used as therapeutic agents to block	
CC	receptor-ligand interactions. The membrane-bound proteins can also be	
CC	employed for screening of potential peptide or small molecule inhibitors	
CC	of the relevant receptor/ligand interaction. The PRO encoding sequences	
CC	are useful as hybridization probes, in chromosome and gene mapping and in	
CC	the generation of antisense RNA and DNA. PRO nucleic acid sequences	
CC	will also be useful for the preparation of PRO polypeptides, especially	
CC	by recombinant techniques.	
XX		

```

SQ      Sequence      229 AA;
Query Match      99.4%; Score 1253; DB 21; Length 229;
Best Local Similarity 99.6%; Pred. No. 6.5e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 MODDDGYITLTIKIKRKALVSVPASSFWRMVALLILLICVGVVGVVALGITSWQRN 60
DB      1 MODDDGYITLTIKIKRKALVSVPASSFWRMVALLILLICVGVVGVVALGITSWQRN 60
QY      61 YLQDENENRITGTLQOLAKRFQCYVVKOSLKGTFKGHKCSPDINWRYGDSYGFPRHN 120
DB      61 YLQDENENRITGTLQOLAKRFQCYVVKOSLKGTFKGHKCSPDINWRYGDSYGFPRHN 120
QY      121 LTWEESKQYCTDMNNTLLIKIDNRNIVEYIKARTHLIRWVG:SRQKSNEVWKMEDGSVISE 180
DB      121 LTWEESKQYCTDMNNTLLIKIDNRNIVEYIKARTHLIRWVG:SRQKSNEVWKMEDGSVISE 180
QY      181 NMPEFLBDGKGNMCAVFNHGKMEPTFCENKHYLMCEKAKMTVDQLP 229
DB      181 NMPEFLBDGKGNMCAVFNHGKMEPTFCENKHYLMCEKAKMTVDQLP 229

RESULT 3
AU12432
ID      AU12432 standard; Protein; 229 AA.
XX
AC      AAU12432;
XX
DT      24-OCT-2001 (first entry)
XX
DE      Human PRO1384 polypeptide sequence.
XX
KW      Human secretory and transmembrane; PRO; mammalian; cancer; lung;
KW      breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
KW      cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
KW      adipocyte; A-peptide; factor VIIa; gene therapy.
XX
OS      Homo sapiens.
XX
FN      WO200140466-A2.
XX
PD      07-JUN-2001.
XX
PF      01-DEC-2000; 2003WO-US32678.
XX
PR      01-DEC-1999; 99WO-US28301.
XX
PR      01-DEC-1999; 99WO-US28634.
XX
PR      02-DEC-1999; 99WO-US28551.
XX
PR      02-DEC-1999; 99WO-US28564.
XX
PR      02-DEC-1999; 99WO-US28565.
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PR      09-DEC-1999; 99US-0170262.
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PR      16-DEC-1999; 99WO-US30915.
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PR      20-DEC-1999; 99WO-US30911.
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PR      20-DEC-1999; 99WO-US30999.
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PR      30-DEC-1999; 99WO-US31243.
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PR      06-JAN-2000; 2000WO-US00277.
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PR      11-FEB-2000; 2000WO-US03565.
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PR      22-FEB-2000; 2000WO-US04414.
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PR      30-MAR-2000; 2000WO-US08439.
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PR      17-MAY-2000; 2000WO-US13705.
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PR      22-MAY-2000; 2000WO-US14042.
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PR      30-MAY-2000; 2000WO-US14941.
XX
PR      02-JUN-2000; 2000WO-US15264.
XX
PR      10-NOV-2000; 2000WO-US30873.

```

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XX      (GFT: ) GENENTECH INC.
PA      Baker KP, Beresini M, DeGeorge L, Desnoyers L, Filvaroff E, Gao W;
PI      Gerritsen ME, Goddard A, Godowski PU, Gurney AL, Sherwood S;
PI      Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WT, Zhang Z;
XX      WPI, 2001-408281/43.
DR      N-PSDB; AAS21504.
XX
XX      Isolated, secretory and transmembrane PRO polypeptide used to detect
PT      other PRO polypeptides, link bioactive molecules to cells expressing
PT      PRO polypeptides, and detect the presence of mammalian tumors e.g.
PT      lung, breast, prostate, cervical.
XX
XX      Claim 12; Fig 522; 813pp; English.
XX
CC      AAU12172-AAU12446 represent novel human secretory and transmembrane
CC      PRO polypeptides. The PRO polypeptides are useful to detect other
CC      PRO polypeptides, to link bioactive molecules to cells expressing
CC      PRO polypeptides, to modulate biological activities of cells expressing
CC      PRO polypeptides, and to detect the presence of mammalian lung, colon,
CC      breast, prostate, rectal, cervical or liver tumors by comparing PRO
CC      polypeptide expression in a cell sample to that in a control sample.
CC      Some of the 275 sequences are also useful to stimulate the release of
CC      tumour necrosis factor-alpha (TNF-alpha) from human blood, the
CC      proliferation or differentiation of chondrocytes, the proliferation or
CC      gene expression in pericyte cells, the release of proteoglycans from
CC      cartilage, the proliferation of inner ear utricular supporting cells or
CC      of T-lymphocytes, the release of a cytokine from peripheral blood
CC      monocytes (PBMCs), or the proliferation of endothelial cells. Some of
CC      the PRO polypeptides may modulate glucose or free fatty acid uptake by
CC      skeletal muscle cells or by adipocytes, or inhibit binding of A-peptide
CC      to factor VIIa. The PRO polypeptides can be used in assays to identify
CC      molecules involved in binding interactions. The polynucleotides encoding
CC      PRO polypeptides can be used to generate probes, antisense RNA/DNA,
CC      transgenic or knock out animals and can be used in gene therapy.
XX
SQ      Sequence      229 AA;
Query Match      99.4%; Score 1253; DB 22; Length 229;
Best Local Similarity 99.6%; Pred. No. 6.5e-119;
Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 MODDDGYITLTIKIKRKALVSVPASSFWRMVALLILLICVGVVGVVALGITSWQRN 60
DB      1 MODDDGYITLTIKIKRKALVSVPASSFWRMVALLILLICVGVVGVVALGITSWQRN 60
QY      61 YLQDENENRITGTLQOLAKRFQCYVVKOSLKGTFKGHKCSPDINWRYGDSYGFPRHN 120
DB      61 YLQDENENRITGTLQOLAKRFQCYVVKOSLKGTFKGHKCSPDINWRYGDSYGFPRHN 120
QY      121 LTWEESKQYCTDMNNTLLIKIDNRNIVEYIKARTHLIRWVG:SRQKSNEVWKMEDGSVISE 180
DB      121 LTWEESKQYCTDMNNTLLIKIDNRNIVEYIKARTHLIRWVG:SRQKSNEVWKMEDGSVISE 180
QY      181 NMPEFLBDGKGNMCAVFNHGKMEPTFCENKHYLMCEKAKMTVDQLP 229
DB      181 NMPEFLBDGKGNMCAVFNHGKMEPTFCENKHYLMCEKAKMTVDQLP 229

RESULT 4
AAB65288
ID      AAB65288 standard; Protein; 229 AA.
XX
AC      AAB65288;
XX
DT      02-APR-2001 (first entry)
XX
DE      Human PRO1384 (UNQ721) protein sequence SEQ ID NO:424.
XX
KW      Human; secreted and transmembrane protein; PRO; cytosstatic;
KW      cell death; cancer; chromosomal mapping; gene mapping; tissue typing;

```

diagnostic assay.  
 Homo sapiens.  
 W020073454-A1.  
 07-DEC-2000.  
 30-MAR-2000; 2000WO-US08439.  
 02-JUN-1999; 99WO-US12252.  
 23-JUN-1999; 99US-0141037.  
 07-JUL-1999; 99US-0143048.  
 20-JUL-1999; 99US-0144758.  
 26-JUL-1999; 99US-0145698.  
 28-JUL-1999; 99US-0146222.  
 17-AUG-1999; 99US-0149396.  
 15-SEP-1999; 99WO-US21090.  
 08-OCT-1999; 99US-0158663.  
 30-NOV-1999; 99WO-US28313.  
 01-DEC-1999; 99WO-US28301.  
 16-DEC-1999; 99WO-US30095.  
 20-DEC-1999; 99WO-US30911.  
 05-JAN-2000; 2000WO-US00219.  
 06-JAN-2000; 2000WO-US00376.  
 11-FEB-2000; 2000WO-US03565.  
 18-FEB-2000; 2000WO-US04341.  
 22-FEB-2000; 2000WO-US04914.  
 24-FEB-2000; 2000WO-US04914.  
 02-MAR-2000; 2000WO-US05004.  
 15-MAR-2000; 2000WO-US05841.  
 20-MAR-2000; 2000WO-US06884.  
 (GETH ) GENENTECH INC.  
 Ashtkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,  
 Ferrara N, Fong S, Gerber H, Gertsen ME, Goddard A, Godowski PJ,  
 Grimaidi CJ, Gurney AL, Kljavin IT, Napier MA, Pan J, Paoni NF,  
 Roy MA, Stewart RA, Tumas D, Watanabe CK, Williams PM, Wood WI,  
 Zhang Z;  
 MPI; 2001-032160/04.  
 N-PSDB; AAF44257.  
 PRO polynucleotides used to produce polypeptides used to target  
 bioactive molecules such as toxins, radiolabels or antibodies, to  
 specific cells, to cause targeted cell death -  
 Claim 12; Fig 306; 935gp; English.  
 The present invention describes human secreted and transmembrane PRO  
 proteins. The PRO proteins have cytostatic activity. The PRO proteins  
 can be used for targeted delivery of bioactive molecules, such as  
 toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide  
 sequences, and their fragments, can be used as hybridisation probes, in  
 chromosomal and gene mapping, and in the generation of anti-sense RNA  
 and DNA. They may also be used to produce transgenic animals which are  
 used to develop and screen therapeutically useful reagents. The PRO  
 nucleotide and protein sequence can be used for tissue typing and in  
 treating cancer. Anti-PRO antibodies can be used in diagnostic assays.  
 AAF44270 to AAF44470 represent PCR primers and hybridisation probes used  
 in the isolation of human PRO sequences. AAF44087 to AAF44269 and  
 AAF65154 to AAF65300 represent human PRO polynucleotide and protein  
 sequences given in the exemplification of the present invention.  
 Sequence 229 AA;  
 Query Match 99.4%; Score 1253; DB 22; Length 229;  
 Best Local Similarity 99.6%; Pred. No. 6.5e-119;  
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODDDGYITLNTKTRKPAIVSGPSSFWRRVVALILLICVGVVGLVATGTSVYQKN 60  
 DQ 1 MCDSDGYITLNTKTRKPAIVSGPSSFWRRVVALILLICVGVVGLVATGTSVYQKN 60  
 QY 61 YLQDENENRPTGTLQOLAKRFQCYVVKQSELKGFCKGKCSPTDNNRYYGDS CYGPPRRN 120  
 DQ 61 YLQDENENRPTGTLQOLAKRFQCYVVKQSELKGFCKGKCSPTDNNRYYGDS CYGPPRRN 120  
 QY 121 LTWBSKQYCTDMNATLLKIDNENIVEYIKARTHLIRWVGLSRQKSNVWKMEDGSVISE 180  
 DQ 121 LTWBSKQYCTDMNATLLKIDNENIVEYIKARTHLIRWVGLSRQKSNVWKMEDGSVISE 180  
 QY 181 NMFEPLEDGKNNCAVEFHNGKMHPTPCENKHYIMCRKAGMTKVDLP 229  
 DQ 181 NMFEPLEDGKNNCAVEFHNGKMHPTPCENKHYIMCRKAGMTKVDLP 229  
 RESULT 5  
 AB066830  
 ID AB066830 standard; Protein; 229 AA.  
 AC AB066830;  
 DT 23-MAY-2003 (first entry)  
 XX  
 DE Human PRO polypeptide #261.  
 XX Human PRO polypeptide; secreted and transmembrane protein;  
 KW tumour necrosis factor-alpha; TNF-alpha; blood; proliferation;  
 KM differentiation; chondrocyte; tumour; genetic disorder;  
 XX cytosol.  
 OS Homo sapiens.  
 EN US2003036180-A1.  
 PD 20-FEB-2003.  
 XX  
 PF 09-MAY-2002; 2002US-0143114.  
 XX  
 PR 31-MAR-1997; 97WO-US052230.  
 PR 12-JUN-1998; 98WO-US12456.  
 PR 14-JUL-1998; 98WO-US14552.  
 PR 28-AUG-1998; 98WO-US17888.  
 PR 10-SEP-1998; 98WO-US18824.  
 PR 14-SEP-1998; 98WO-US19093.  
 PR 14-SEP-1998; 98WO-US19094.  
 PR 16-SEP-1998; 98WO-US19330.  
 PR 17-SEP-1998; 98WO-US19437.  
 PR 07-OCT-1998; 98WO-US21141.  
 PR 29-OCT-1998; 98WO-US22991.  
 PR 29-OCT-1998; 98WO-US22992.  
 PR 20-NOV-1998; 98WO-US24855.  
 PR 01-DEC-1998; 98WO-US25108.  
 PR 05-JAN-1999; 99WO-US25106.  
 PR 08-MAR-1999; 99WO-US05028.  
 PR 10-MAR-1999; 99WO-US05190.  
 PR 20-APR-1999; 99WO-US08615.  
 PR 14-MAY-1999; 99WO-US10733.  
 PR 02-JUN-1999; 99WO-US12252.  
 PR 01-SEP-1999; 99WO-US20111.  
 PR 08-SEP-1999; 99WO-US20514.  
 PR 13-SEP-1999; 99WO-US20944.  
 PR 15-SEP-1999; 99WO-US21090.  
 PR 15-SEP-1999; 99WO-US21547.  
 PR 05-OCT-1999; 99WO-US23089.  
 PR 29-NOV-1999; 99WO-US28214.  
 PR 30-NOV-1999; 99WO-US28313.  
 PR 01-DEC-1999; 99WO-US28409.  
 PR 01-DEC-1999; 99WO-US28301.  
 PR 02-DEC-1999; 99WO-US28634.  
 PR 02-DEC-1999; 99WO-US28551.



PR 02-DEC-1999; 99WO-US28554.  
 PR 02-DEC-1999; 99WO-US28555.  
 PR 16-DEC-1999; 99WO-US30095.  
 PR 20-DEC-1999; 99WO-US30911.  
 PR 20-DEC-1999; 99WO-US30999.  
 PR 22-DEC-1999; 99WO-US30720.  
 PR 30-DEC-1999; 99WO-US31243.  
 PR 30-DEC-1999; 99WO-US31274.  
 PR 05-JAN-2000; 2000WO-US00219.  
 PR 06-JAN-2000; 2000WO-US00277.  
 PR 06-JAN-2000; 2000WO-US00376.  
 PR 11-FEB-2000; 2000WO-US03565.  
 PR 18-FEB-2000; 2000WO-US04341.  
 PR 18-FEB-2000; 2000WO-US04342.  
 PR 22-FEB-2000; 2000WO-US04414.  
 PR 24-FEB-2000; 2000WO-US04914.  
 PR 24-FEB-2000; 2000WO-US05004.  
 PR 01-MAR-2000; 2000WO-US05601.  
 PR 02-MAR-2000; 2000WO-US05746.  
 PR 10-MAR-2000; 2000WO-US06319.  
 PR 15-MAR-2000; 2000WO-US06884.  
 PR 20-MAR-2000; 2000WO-US07377.  
 PR 21-MAR-2000; 2000WO-US07532.  
 PR 30-MAR-2000; 2000WO-US08439.  
 PR 17-MAY-2000; 2000WO-US13705.  
 PR 22-MAY-2000; 2000WO-US14042.  
 PR 30-MAY-2000; 2000WO-US14941.  
 PR 02-JUN-2000; 2000WO-US15264.  
 PR 28-JUL-2000; 2000WO-US20710.  
 PR 11-AUG-2000; 2000WO-US22031.  
 PR 23-AUG-2000; 2000WO-US23522.  
 PR 24-AUG-2000; 2000WO-US33326.  
 PR 08-NOV-2000; 2000WO-US30952.  
 PR 10-NOV-2000; 2000WO-US30873.  
 PR 01-DEC-2000; 2000WO-US32678.  
 PR 20-DEC-2000; 2000WO-US34956.  
 PR 28-FEB-2001; 2001WO-US06520.  
 PR 01-MAR-2001; 2001WO-US06666.  
 PR 25-MAY-2001; 2001WO-US17092.  
 PR 01-JUN-2001; 2001WO-US17800.  
 PR 20-JUN-2001; 2001WO-US19692.  
 PR 22-JUN-2001; 2001WO-US20116.  
 PR 29-JUN-2001; 2001WO-US21066.  
 PR 09-JUL-2001; 2001WO-US21735.  
 PR 20-DEC-2000; 2000US-0747259.  
 PR 28-FEB-2001; 2001US-0796498.  
 PR 09-MAR-2001; 2001US-0802706.  
 PR 14-MAR-2001; 2001US-0806889.  
 PR 22-MAR-2001; 2001US-0816744.  
 PR 05-APR-2001; 2001US-0828366.  
 PR 05-MAY-2001; 2001US-0828366.  
 PR 10-MAY-2001; 2001US-0854208.  
 PR 10-MAY-2001; 2001US-0854280.  
 PR 18-MAY-2001; 2001US-0860216.  
 PR 25-MAY-2001; 2001US-0866028.  
 PR 25-MAY-2001; 2001US-0866034.  
 PR 01-JUN-2001; 2001US-0872035.  
 PR 05-JUN-2001; 2001US-0874503.  
 PR 14-JUN-2001; 2001US-0882636.  
 PR 19-JUN-2001; 2001US-0886342.  
 PR 21-JUN-2001; 2001US-0887879.  
 PR 18-JUL-2001; 2001US-0908827.  
 PR 06-AUG-2001; 2001US-0924419.  
 PR 09-AUG-2001; 2001US-0927796.  
 PR 16-AUG-2001; 2001US-0931836.  
 PR 19-DEC-2001; 2001US-0028072.  
 XX  
 XX (GETH ) GENENTECH INC.  
 XX  
 XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W,  
 PI Gerlitsen ME, Goddard A, Godowski RJ, Gunney AL, Sherwood S;  
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WT, Zhang Z,  
 XX

DR MPI: 2003-332040/31.  
 DR N-PSDB; ACAA3863.  
 XX  
 PT New secreted and transmembrane PRO nucleic acids, useful for gene  
 PT therapy, in chromosome and gene mapping, as chromosome markers, in  
 PT tissue typing, and in chromosome identification -  
 XX  
 PS Claim 12; Fig 522; 660pp; English.  
 XX  
 CC The present invention relates to the isolation of novel human PRO  
 CC polypeptides, and the polynucleotide sequences encoding them. The  
 CC PRO polypeptides are secreted and transmembrane proteins. The PRO  
 CC polypeptides are useful for detecting other PRO polypeptides, for  
 CC linking bioactive molecules to cells expressing PRO polypeptides,  
 CC for modulating biological activities of cells expressing PRO  
 CC polypeptides, and for identifying agonists or antagonists.  
 CC The PRO polypeptides are useful for stimulating the release of  
 CC tumour necrosis factor (TNF)-alpha from human blood, for stimulating  
 CC the proliferation or differentiation of chondrocytes, and detecting the  
 CC presence of tumours. The polynucleotide sequences encoding PRO  
 CC polypeptides are useful as hybridisation probes, in chromosome and  
 CC gene mapping, in the generation of antisense RNA and DNA, in the  
 CC preparation of PRO polypeptides, for generating transgenic animals or  
 CC knockout animals, for the genetic analysis of individuals with genetic  
 CC disorders, and in gene therapy. ABU6570-ABU6684 represent the human  
 CC PRO polypeptides of the invention.  
 CC Note: The sequence data for this patent was obtained in electronic  
 CC format directly from the USPTO web site at  
 CC seqdata.uspto.gov/patident.html.  
 XX  
 SQ Sequence 229 AA;  
 Query Match 99.4%; Score 1253; DB 24; Length 229;  
 Best Local Similarity 99.6%; Pred. No. 6.5e-119;  
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 1 MODEGGYITINIKTKRKAIVSGPSSFWRVALLILICVGMVGLALGIWSVQRN 60  
 1 MDEDDGYITINIKTKRKAIVSGPSSFWRVALLILICVGMVGLALGIWSVQRN 60  
 Db  
 QY 61 YLDPENNRKGTLOQLAKRCQYVVKOSLKGTKGKSPCDTNMRYGSGCFPRN 120  
 YLDPENNRKGTLOQLAKRCQYVVKOSLKGTKGKSPCDTNMRYGSGCFPRN 120  
 Db  
 QY 121 LTWESKQYCTDMNATLTKEDNRNIVYIARCTLIIRWGLSPKSNBWMEDGVSYS 180  
 LTWESKQYCTDMNATLTKEDNRNIVYIARCTLIIRWGLSPKSNBWMEDGVSYS 180  
 Db  
 QY 121 LTWESKQYCTDMNATLTKEDNRNIVYIARCTLIIRWGLSPKSNBWMEDGVSYS 180  
 LTWESKQYCTDMNATLTKEDNRNIVYIARCTLIIRWGLSPKSNBWMEDGVSYS 180  
 Db  
 QY 181 NMFEFLDDGKGNMNCAYFHNGKKAFTCENKHVYLKCEKKAQTKVDLP 229  
 NMFEFLDDGKGNMNCAYFHNGKKAFTCENKHVYLKCEKKAQTKVDLP 229  
 Db  
 RESULT 6  
 ABU67106  
 ID ABU67106 standard; Protein, 229 AA.  
 XX  
 AC ABU67106;  
 XX  
 DT 27-MAY-2003 (first entry)  
 XX  
 DE Human secreted/transmembrane, PRO, protein SEQ ID 522.  
 XX  
 XX Human; secreted protein; transmembrane protein; PRO;  
 XX inflammatory disease; organ failure; atherosclerosis; cardiac injury;  
 XX infertility; birth defects; premature aging; AIDS; biosensor;  
 XX acquired immunodeficiency syndrome; cancer; diabetic complication;  
 XX bioreactor; tumour.  
 XX  
 XX Homo sapiens.  
 OS  
 XX US2003032155-A1.  
 XX

PD 13-FEB-2003.  
XX 03-MAY-2002; 2002US-0137865.  
XX 31-MAR-1997; 97WO-US05230.  
PR 12-JUN-1998; 98WO-US12456.  
PR 14-JUL-1998; 98WO-US14552.  
PR 28-AUG-1998; 98WO-US17888.  
PR 10-SEP-1998; 98WO-US18824.  
PR 14-SEP-1998; 98WO-US19093.  
PR 14-SEP-1998; 98WO-US19094.  
PR 16-SEP-1998; 98WO-US19177.  
PR 17-SEP-1998; 98WO-US19330.  
PR 07-OCT-1998; 98WO-US19437.  
PR 29-OCT-1998; 98WO-US21141.  
PR 29-OCT-1998; 98WO-US22991.  
PR 29-OCT-1998; 98WO-US22992.  
PR 20-NOV-1998; 98WO-US24855.  
PR 01-DEC-1998; 98WO-US25108.  
PR 05-JAN-1999; 99WO-US00106.  
PR 08-MAR-1999; 99WO-US05028.  
PR 10-MAR-1999; 99WO-US05190.  
PR 20-APR-1999; 99WO-US08615.  
PR 14-MAY-1999; 99WO-US10733.  
PR 02-JUN-1999; 99WO-US12252.  
PR 01-SEP-1999; 99WO-US20111.  
PR 08-SEP-1999; 99WO-US20594.  
PR 13-SEP-1999; 99WO-US20944.  
PR 15-SEP-1999; 99WO-US21090.  
PR 15-SEP-1999; 99WO-US21547.  
PR 05-OCT-1999; 99WO-US23089.  
PR 29-NOV-1999; 99WO-US28214.  
PR 30-NOV-1999; 99WO-US28313.  
PR 30-NOV-1999; 99WO-US28405.  
PR 01-DEC-1999; 99WO-US28301.  
PR 01-DEC-1999; 99WO-US28634.  
PR 02-DEC-1999; 99WO-US28551.  
PR 02-DEC-1999; 99WO-US28564.  
PR 02-DEC-1999; 99WO-US28565.  
PR 16-DEC-1999; 99WO-US30095.  
PR 20-DEC-1999; 99WO-US30911.  
PR 20-DEC-1999; 99WO-US30999.  
PR 22-DEC-1999; 99WO-US30720.  
PR 30-DEC-1999; 99WO-US31243.  
PR 30-DEC-1999; 99WO-US31274.  
PR 05-JAN-2000; 2000WO-US00219.  
PR 06-JAN-2000; 2000WO-US00277.  
PR 11-FEB-2000; 2000WO-US00376.  
PR 18-FEB-2000; 2000WO-US03565.  
PR 18-FEB-2000; 2000WO-US04341.  
PR 18-FEB-2000; 2000WO-US04342.  
PR 22-FEB-2000; 2000WO-US04414.  
PR 24-FEB-2000; 2000WO-US04914.  
PR 24-FEB-2000; 2000WO-US05004.  
PR 01-MAR-2000; 2000WO-US05601.  
PR 02-MAR-2000; 2000WO-US05746.  
PR 02-MAR-2000; 2000WO-US05841.  
PR 10-MAR-2000; 2000WO-US06319.  
PR 15-MAR-2000; 2000WO-US06884.  
PR 20-MAR-2000; 2000WO-US07377.  
PR 21-MAR-2000; 2000WO-US07532.  
PR 30-MAR-2000; 2000WO-US08439.  
PR 17-MAY-2000; 2000WO-US13705.  
PR 22-MAY-2000; 2000WO-US14042.  
PR 30-MAY-2000; 2000WO-US14941.  
PR 02-JUN-2000; 2000WO-US15264.  
PR 28-JUL-2000; 2000WO-US20710.  
PR 11-AUG-2000; 2000WO-US22031.  
PR 23-AUG-2000; 2000WO-US23522.  
PR 24-AUG-2000; 2000WO-US23328.  
PR 08-NOV-2000; 2000WO-US30952.  
PR 10-NOV-2000; 2000WO-US30873.  
PR 01-DEC-2000; 2000WO-US32678.  
PR 20-DEC-2000; 2000WO-US34956.  
PR 26-FEB-2001; 2001WO-US06520.  
PR 01-MAR-2001; 2001WO-US06666.  
PR 25-MAY-2001; 2001WO-US17092.  
PR 01-JUN-2001; 2001WO-US17800.  
PR 20-JUN-2001; 2001WO-US19692.  
PR 22-JUN-2001; 2001WO-US20116.  
PR 29-JUN-2001; 2001WO-US21066.  
PR 09-JUL-2001; 2001WO-US21735.  
PR 20-DEC-2000; 2000US-0747259.  
PR 28-FEB-2001; 2001US-0796498.  
PR 09-MAR-2001; 2001US-0802706.  
PR 14-MAR-2001; 2001US-0806899.  
PR 22-MAR-2001; 2001US-0816744.  
PR 03-APR-2001; 2001US-0828366.  
PR 10-MAY-2001; 2001US-0854208.  
PR 10-MAY-2001; 2001US-0854280.  
PR 18-MAY-2001; 2001US-0860216.  
PR 25-MAY-2001; 2001US-0866038.  
PR 25-MAY-2001; 2001US-0866034.  
PR 01-JUN-2001; 2001US-0872035.  
PR 05-JUN-2001; 2001US-0874503.  
PR 14-JUN-2001; 2001US-0882636.  
PR 19-JUN-2001; 2001US-0886342.  
PR 21-JUN-2001; 2001US-0887879.  
PR 18-JUL-2001; 2001US-0908827.  
PR 06-AUG-2001; 2001US-0924419.  
PR 09-AUG-2001; 2001US-0927796.  
PR 16-AUG-2001; 2001US-0931836.  
PR 19-DEC-2001; 2001US-0028072.  
XX (GETH ) GENENTECH INC.  
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W,  
XX Gerlitsen ME, Goddard A, Godowski PJ, Gurney AJ, Sherwood S;  
XX Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
XX WPI; 2003-331925/31.  
XX N-PSDB; A004284.  
XX DR New secreted and transmembrane nucleic acids and polypeptides,  
XX designated as PRO, useful for treating inflammation, organ failure,  
XX atherosclerosis, cardiac injury, infertility, birth defects, premature  
XX aging, AIDS, or cancer -  
XX Claim 12; Fig 522; 659pg; English.  
XX The invention relates to an isolated nucleic acid comprising, or which is  
XX at least 80% identical to, or the full-length coding sequence of, any of  
XX the 275 nucleotide sequences, encoding the corresponding PRO polypeptide  
XX (one of 275 secreted or transmembrane proteins). The nucleic acid  
XX further comprises the full-length coding sequence of the DNA deposited  
XX under American Type Culture Collection (ATCC) accession number in a list  
XX given in the specification. Also included are vectors and host  
XX cells for producing PRO proteins, PRO fusion proteins, anti-PRO  
XX antibodies, PRO extracellular domains and mature sequences, methods  
XX of detecting PRO proteins, methods for stimulating the release of  
XX TNF-alpha (tumour necrosis factor alpha) from human blood,  
XX (and the proliferation or differentiation of chondrocyte cells, the  
XX proliferation of, or gene expression in pericyte cells, the release or  
XX proteoglycans from cartilage, proliferation of inner ear utricular  
XX supporting cells, the proliferation of T-lymphocyte cells, the release  
XX of a cytokine from peripheral blood mononuclear cells (PBMC), or the  
XX proliferation of endothelial cells), a method for modulating the uptake  
XX of glucose or free fatty acid (FFA) by skeletal muscle cells,  
XX or the differentiation of adipocyte cells, a method for detecting the  
XX presence of a tumour in a mammal and an oligonucleotide probe derived  
XX from any of the nucleotide sequences cited above. The nucleic acids and  
XX polypeptides are useful for treating inflammatory diseases, organ  
XX failure, atherosclerosis, cardiac injury, infertility, birth defects,  
XX premature aging, AIDS (acquired immunodeficiency syndrome), cancer, or  
XX diabetic complications. The nucleic acids are useful as hybridisation

CC probes, in chromosome and gene mapping, and in generating antisense RNA  
 CC or DNA. The polypeptides are useful as pharmaceuticals, diagnostics,  
 CC biosensors or bioreactors. Both are useful in tissue typing.  
 CC The present sequence represents a PRO protein of the invention.

XX Sequence 229 AA;

Query Match 99.4%; Score 1253; DB 24; Length 229;  
 Best Local Similarity 99.6%; Pred. No. 6,5e-119;  
 Matches 229; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODDGGITLNTIRKPAIVSGPASPFWRWALITLICYGVVGLVALGWSVORN 60  
 DB 1 MODDGGITLNTIRKPAIVSGPASPFWRWALITLICYGVVGLVALGWSVORN 60  
 QY 61 YLDENENRTGTLQOLAKRFGQYVVKQSELKGFEEKKCSPCDTNMYGDSYGFPRN 120  
 DB 61 YLDENENRTGTLQOLAKRFGQYVVKQSELKGFEEKKCSPCDTNMYGDSYGFPRN 120  
 QY 121 LTWESKQYCTDMNATLTKIDNRIYVYIARHTLITWGLSRKSNVWKWEDGVISE 180  
 DB 121 LTWESKQYCTDMNATLTKIDNRIYVYIARHTLITWGLSRKSNVWKWEDGVISE 180  
 QY 181 NMFFFLDGGKNNMCAYFHNGKMFPCENKHYIMCERKAKMTVDLP 229  
 DB 181 NMFFFLDGGKNNMCAYFHNGKMFPCENKHYIMCERKAKMTVDLP 229

# RESULT 7

ABUS9911 ID ABUS9911 standard; Protein, 229 AA.

AC ABUS9911;

DT 13-MAY-2003 (first entry)

XX Novel secreted and transmembrane protein PRO1384.

XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;  
 KW cardiac insufficiency disorder; cancer; tumor; immune response;  
 KW adrenal cortical capillary endothelial growth; c-fos induction;  
 KW vascular endothelial growth factor inhibition; VEGF inhibition;  
 KW endothelial cell growth inhibitor; T-lymphocytes stimulation;  
 KW retinal neurons cell survival; rod photoreceptor cell survival;  
 KW retinal disorder; retinitis pigmentosa; kidney disease;  
 KW mammalian kidney mesangial cell proliferation; Berger disease;  
 KW dermatitis; herpeticorns; Crohn's disease; chondrocyte proliferation;  
 KW chondrocyte redifferentiation; sports injury; arthritis.

XX Homo sapiens.

PN US2003017563-A1.

XX 23-JAN-2003.

PF 07-MAY-2002; 2002US-0140608.

XX 31-MAR-1997; 97WO-US06230.  
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 PR 14-JUL-1998; 98WO-US14552.  
 PR 28-AUG-1998; 98WO-US17888.  
 PR 10-SEP-1998; 98WO-US18824.  
 PR 14-SEP-1998; 98WO-US19093.  
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 PR 14-SEP-1998; 98WO-US19177.  
 PR 16-SEP-1998; 98WO-US19330.  
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PR 08-MAR-1999; 99WO-US05028.  
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 PR 15-SEP-1999; 99WO-US21547.  
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 PR 02-DEC-1999; 99WO-US28954.  
 PR 02-DEC-1999; 99WO-US28955.  
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 PR 20-DEC-1999; 99WO-US30929.  
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 PR 18-FEB-2000; 2000WO-US04411.  
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PA	(GENTH ) GEMENTECH INC.
XX	
P1	Baker KP, Beresini M, DeForge L, Desnoyers L, Filzaroff E, Gao W;
P1	Geritsen ME, Goddard A, Godowski PJ, Gunney AL, Sherwood S;
P1	Smith V, Stewart YA, Tumas D, Watarabe CX, Wood WT, Zhang Z;
XX	
DR	WPI; 2003-148238/14.
DR	N-PSDB; ABX89401.
PT	
PT	Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
PT	and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
PT	are therapeutically useful for enhancing immune response and its cancer
PT	treatments
XX	-
XX	
XX	Claim 12; Fig 522; 659pp; English.
CC	The invention describes an isolated human PRO polypeptide. The PRO
CC	polypeptides are useful in detecting PRO polypeptides in a sample, in
CC	linking a biactive molecule to a cell expressing a PRO polypeptide, and
CC	in modulating at least one biological activity of a cell expressing a PRO
CC	polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
CC	useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
CC	stimulate adrenal cortical capillary endothelial growth, and PRO536,
CC	PRO6943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
CC	PRO136 and PRO1387 induce c-fos in endothelial cells, and are thus
CC	useful for treating conditions or disorders where angiogenesis would be
CC	beneficial, e.g. wound healing and antagonist of this polypeptide are
CC	useful for treating cancers tumors. PRO812 inhibits vascular
CC	endothelial growth factor (VEGF) stimulated proliferation of endothelial
CC	cells and is thus useful for inhibiting endothelial cell growth in
CC	mammals which would be beneficial in inhibiting tumor growth. PRO826,
CC	PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
CC	stimulated T-lymphocytes and are therapeutically useful for enhancing
CC	immune response. PRO828, PRO826, PRO1068 or PRO1312 enhance survival of
CC	retinal neurons cells (PRO1132 is also enhances survival/proliferation of
CC	rod photoreceptor cells) and therefore are useful for treating retinal
CC	disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO815, PRO813
CC	and PRO1066 induce proliferation of mammalian kidney mesangial cells,
CC	and therefore are useful for treating kidney disorders associated with
CC	decreased mesangial cell function such as Berger disease or other
CC	nephropathies associated with dermatitis, herpeticiformis or Crohn's
CC	disease. PRO110, PRO844, PRO1312, PRO1192 and PRO1387 induce the
CC	proliferation and/or redifferentiation of chondrocytes in culture and
CC	are thus useful for treating sports injuries, and arthritis. This
CC	is the amino acid sequence of a novel human PRO protein.
XX	
SQ	Sequence      229 AA:
	Query Match            99.4%;    Score 1253;   DB 24;   Length 229;
	Best Local Similarity   99.6%;    Pred. No. 6,5e-119;
	Matches    228;   Conservative       0;   Mismatches   -;   Indels         0;   Gaps            0
QY	1 MODRGVITIKTKKPPALVSYGSPASSFWRRPVALILLILCYGVWGVLALGTISMOMN 60
Db	1 MODRGVITLNTKRPALVSVGSPASSWWRWAILILLICGVWGVLALGTISWMQN 60
QY	YLQDENERTGLTQQAKFCQYVWKSRLKTFPKHKSCPCDTPNRYYGDCGYFFRN 120
Db	YLQDENERTGLTQQAKRCQYVWQSLLKGFPHKHSKPCDTMWRYYGDCGYFFRN 120
QY	LTVESKQYCTDMATILKIDRNVIEYIKARTHLIRWTGSLSQSNSEWKMDSGVIS 180
Db	LTVESKQYCTDMATILKIDRNVIEYIKARTHLIRWTGSLSQSNSEWKMDSGVIS 180

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 PR 28-FEB-2001; 2001MO-US06520.  
 PR 01-JUN-2001; 2001MO-US17800.  
 PR 20-JUN-2001; 2001MO-US19692.  
 PR 29-JUN-2001; 2001MO-US21066.  
 PR 09-JUL-2001; 2001MO-US21735.  
 PR 16-JUN-1997; 97US-049777F.  
 PR 17-OCT-1997; 97US-062250P.  
 PR 12-NOV-1997; 97US-065186P.  
 PR 13-NOV-1997; 97US-065311P.  
 PR 24-NOV-1997; 97US-067709P.  
 PR 25-FEB-1998; 98US-075945P.  
 PR 20-MAR-1998; 98US-078910P.  
 PR 28-APR-1998; 98US-083322P.  
 PR 07-MAY-1998; 98US-084600P.  
 PR 28-MAY-1998; 98US-087106P.  
 PR 02-JUN-1998; 98US-087607P.  
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 PR 02-JUN-1998; 98US-087759P.  
 PR 03-JUN-1998; 98US-087827P.  
 PR 04-JUN-1998; 98US-088021P.  
 PR 04-JUN-1998; 98US-088025P.  
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 PR 04-JUN-1998; 98US-088028P.  
 PR 04-JUN-1998; 98US-088029P.  
 PR 04-JUN-1998; 98US-088033P.  
 PR 04-JUN-1998; 98US-088035P.  
 PR 05-JUN-1998; 98US-088167P.  
 PR 05-JUN-1998; 98US-088202P.  
 PR 05-JUN-1998; 98US-088212P.  
 PR 05-JUN-1998; 98US-088217P.  
 PR 09-JUN-1998; 98US-088655P.  
 PR 10-JUN-1998; 98US-088734P.  
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 PR 11-JUN-1998; 98US-088858P.  
 PR 11-JUN-1998; 98US-088861P.  
 PR 11-JUN-1998; 98US-088876P.  
 PR 12-JUN-1998; 98US-089105P.  
 PR 16-JUN-1998; 98US-089440P.  
 PR 16-JUN-1998; 98US-089512P.  
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 PR 17-JUN-1998; 98US-089600P.  
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 PA (GETH ) GENENTECH INC.  
 XX  
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
 XX Pextrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;  
 XX Grimaldi JC, Gunney AL, Kijavitt IJ, Napier MA, Pan J, Paoni NF;  
 XX Roy MA, Stewart TA, Tumas D, Watanabe CX, Williams PM, Wood WJ;  
 XX Zhang Z;  
 XX  
 XX WPI; 2003-247083/24.  
 XX N-PSDB; ABX80393.  
 DR  
 XX Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346  
 PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes  
 PT are therapeutically useful for enhancing immune response and in cancer  
 PT treatments -  
 XX

ES Claim 12; Fig 306; 648pp; English.  
 XX  
 CC The invention describes an isolated human PRO polypeptide. The PRO  
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in  
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and  
 CC in modulating at least one biological activity of a cell expressing a PRO  
 CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus  
 CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186  
 CC stimulate adrenal capillary endothelial growth, and PRO536,  
 CC PRO943, PRO828, PRO1068 or PRO535, PRO826, PRO819, and PRO126,  
 CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus  
 CC useful for treating conditions or disorders where angiogenesis would be  
 CC beneficial, e.g. wound healing and antagonist of this polypeptide are  
 CC useful for treating cancerous tumors. PRO812 inhibits vascular  
 CC endothelial growth factor (VEGF) stimulated proliferation of endothelial  
 CC cells and is thus useful for inhibiting endothelial cell growth in  
 CC mammals which would be beneficial in inhibiting tumor growth. PRO826,  
 CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of  
 CC stimulated T-lymphocytes and are therapeutically useful for enhancing  
 CC immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of  
 CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of  
 CC rod photoreceptor cells) and therefore are useful for treating retinal  
 CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813  
 CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,  
 CC and therefore are useful for treating kidney disorders associated with  
 CC decreased mesangial cell function such as Berger disease or other  
 CC nephropathies associated with dermatitis, herpeticiformis or Crohn's  
 CC disease. PRO1310, PRO844, PRO1312, PRO1132 and PRO1387 induce the  
 CC proliferation and/or redifferentiation of chondrocytes in culture and  
 CC are thus useful for treating sports injuries, and arthritis. This  
 CC is the amino acid sequence of a novel human PRO protein.  
 XX  
 SQ Sequence 229 AA;  
 Query Match 99.4%; Score 1253; DB 24; Length 229;  
 Best Local Similarity 99.6%; Pred. No. 6, 5e-119;  
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 1 MODEDGYITLNTIKTRPALVSVGPASSFWKRWVALILLICVGVVGLVGLVSWVQNRN 60  
 DB 1 MODEDGYITLNTIKTRPALVSVGPASSFWKRWVALILLICVGVVGLVGLVSWVQNRN 60  
 QY 61 YLQDENENRIGTLQOLAKRQCQYVVKQSELKGTFFKGHKSCPCDINMYVYDSCYGFPRHN 120  
 DB 61 YLQDENENRIGTLQOLAKRQCQYVVKQSELKGTFFKGHKSCPCDINMYVYDSCYGFPRHN 120  
 QY 121 LTWBESKQYCTDNATILKTDNRNIVELYTARFHLIRWGLSOKSWKWRGVSYS 180  
 DB 121 LTWBESKQYCTDNATILKTDNRNIVELYTARFHLIRWGLSOKSWKWRGVSYS 180  
 QY 181 NMFEPFLDGKGNKNCAYFHHGKMPFPCENKHYLMCRKAKMTKVDLP 229  
 DB 181 NMFEPFLDGKGNKNCAYFHHGKMPFPCENKHYLMCRKAKMTKVDLP 229  
 RESULT 9  
 ABUS9328  
 ID ABUS9328 standard; Protein; 229 AA.  
 XX  
 XX ABUS9328;  
 AC  
 XX 22-APR-2003 (first entry)  
 DT  
 XX Human secreted/transmembrane protein, #171.  
 DE  
 XX Human; PRO; secreted; transmembrane; pharmaceutical;  
 XX diagnostic; biosensor; bioindicator; tumour; therapeutic;  
 XX gene therapy; tumour-associated antigenic target; TAT; ADEPT;  
 XX antibody-dependent enzyme mediated prodrug therapy; cytostatic.  
 OS Homo sapiens.  
 XX  
 XX US2003027162-A1.

XX 06-FEB-2003.  
XX  
PF 15-NOV-2001; 2001US-0997428.  
XX  
PR 05-NOV-1997; 97WMO-US20069.  
PR 16-SEP-1998; 98WMO-US19330.  
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PR 04-AUG-1998; 98US-095301P.  
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PR 04-AUG-1998; 98US-095325P.  
PR 10-AUG-1998; 98US-095916P.

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PR 31-AUG-1998; 98US-098525P.
PR 16-SEP-1998; 98US-100634P.
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PR 22-DEC-1998; 98US-113296P.
PR 12-MAR-1999; 98US-123957P.
PR 23-JUN-1999; 98US-141037P.

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Query Match 99.4%; Score 1253; DB 24; Length 229;  
 Best Local Similarity 99.6%; Pred. No. 6.5e-119;  
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 MODEGGYTLNKKPKPALVSGPSSFWRYMALILLICGVAVG;VALGINSVMQRN 60
DB 1 MODEGGYTLNKKPKPALVSGPSSFWRYMALILLICGVAVG;VALGINSVMQRN 60
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DB 61 YIQDENENRTGTLQQLAKRFQYVVKOSLKTQFPGHKOSPCDTNWRYYGSCYGFRRN 120
QY 121 LTWESKOYCTDMNAATLKLIDNRNIVEYIKATTHIRVAVGSRKSNVEWKKEDSVTSE 180
DB 121 LTWESKOYCTDMNAATLKLIDNRNIVEYIKATTHIRVAVGSRKSNVEWKKEDSVTSE 180
QY 181 NMFEELBPGKNNKCAVEYHNGXHPPTGCKNKAYLNCERKAGKATYDLP 229
DB 181 NMFEELBPGKNNKCAVEYHNGXHPPTGCKNKAYLNCERKAGKATYDLP 229

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RESULT 10  
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 ID ABUS9477 standard; Protein; 229 AA.  
 XX ABUS9477;  
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 XX  
 DT 22-APR-2003 (first entry)  
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 XX  
 DE Novel human secreted or transmembrane protein PRO183.  
 XX  
 XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;  
 KW cardiac insufficiency disorder; cancer; tumour; immune response;  
 KW adrenal cortical capillary endothelial growth; c-fos induction;

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KW vascular endothelial growth factor inhibition; VEGF inhibition;
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
KW retinal neurons cell survival; rod photoreceptor cell survival;
KW retinal disorder; retinitis pigmentosa; kidney disorder;
KW mammalian kidney mesangial cell proliferation; Berger disease;
KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
KW chondrocyte redifferentiation; sports injury; arthritis.
OS Homo sapiens.
PN US2003027985-A1.
PD
XX
XX 06-FEB-2003.
XX
XX 14-NOV-2001; 2001US-0990562.
XX
XX 05-NOV-1997; 97WO-US20069.
XX 16-SEP-1998; 98WO-US19330.
XX 17-SEP-1998; 98WO-US19437.
XX 07-OCT-1998; 98WO-US21141.
XX 01-DEC-1998; 98WO-US25108.
XX 05-JAN-1999; 99WO-US00106.
XX 08-MAR-1999; 99WO-US05028.
XX 02-JUN-1999; 99WO-US12252.
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XX 15-SEP-1999; 99WO-US21547.
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XX 02-MAR-2000; 2000WO-US05004.
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XX 28-FEB-2001; 2001WO-US06520.
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XX 20-JUN-2001; 2001WO-US19692.
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ID ABU60612 standard; Protein; 229 AA.
AC ABU60612;
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DT 01-MAY-2003 (first entry)
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DE	Human	secreted/transmembrane protein, #171.
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KW	pharmaceutical; diagnostic; therapeutic; gene therapy	
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OS	Homo sapiens.	
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PD	31-OCT-2002.	
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PF	14-NOV-2001; 2001US-0992598.	
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PR	15-SEP-1999; 99WO-US21547.	
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PR	20-DEC-1999; 99WO-US30911.	
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PR	30-MAY-2000; 2000WO-US14941.	
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PR	09-JUL-2001; 2001WO-US21065.	
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PR	04-JUN-1998; 98US-088026.P.	

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PR      04-JUN-1998;          98US-088326P;
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PR      18-JUN-1998;          98US-089608P;
PR      28-AUG-2001;          2001US-094199Z;
```

PA (GETH ) GENENTECH INC.  
 XX  
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnovers L, Eaton DL,  
 PI Ferrara N, Fong S, Geber H, Geritsen ME, Goddard A, Godowski PJ,  
 PI Grimaldi JC, Gunney AL, Kijavitt TJ, Napier MA, Pan J, Paoni NF,  
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,  
 PI Zhang Z;  
 XX  
 DR WPI: 2003-288106/28.  
 DR N-PSDB; A3X90371.  
 XX  
 XX New transmembrane polypeptides and nucleic acids encoding the  
 PT polypeptides, useful in gene therapy, in chromosome identification, as  
 PT chromosome markers, or in generating probes -  
 XX  
 PS Claim 12; Fig 306; 650bp; English.

The invention discloses isolated PRO secreted/transmembrane polypeptides comprising a sequence without signal peptide and the nucleic acid encoding them. The polypeptides can be used to raise antibodies that specifically bind to the PRO polypeptide, for linking a bioactive molecule to a cell expressing a PRO protein and for modulating at least one biological activity of a cell. The PRO polypeptides or polynucleotides are also useful in gene therapy, in chromosome identification, as chromosome markers, or in generating probes. The PRO polypeptides are useful as molecular markers for protein electrophoresis, and the isolated nucleic acids may be used for recombinantly expressing those markers. The PRO polypeptides are useful in diagnostic assays for PRO, and in affinity purification of PRO from recombinant cell culture or natural sources. The sequences presented in ABU66478-ABU66624 are the PRO polynucleotides of the invention. Note: The sequence data for this patent is also available in electronic format from USPTO at [seqdata.uspto.gov/sequence.html](http://seqdata.uspto.gov/sequence.html).

Query Match	99.48;	Score 1253;	DB 24;	Length 229;
Best Local Similarity	99.68;	Pred. No. 6.5e-119;		

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DT 14-APR-2003 (first entry)  
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KM Human; PRO: cytostatic; tumour; cancer; breast; lung; stomach; liver;  
KW horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEFI;  
KM antibody-dependent enzyme mediated prodnug therapy.  
XX  
OS Homo sapiens.  
OS  
PN US2003027163-A1.  
XX  
XX  
PD 06-FEB-2003.  
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PF 15-NOV-2001; 2001US-0997666.  
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PR 01-DEC-1998; 98WO-US25108.  
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Best Local Similarity 99.6%; Pred. No. 6,5e-119;
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   I MODENGTITNTKTEKPAIVSVGPASSFWRMALILLICVGMVGVVAGIAGMSMORN 60
DB 61 YLDENENRTGTLOOLAKRFQYVVKOSELNGTFRGHKSPCDITWRYYGDSYGFPRN 120
QY 121 LTWESKQYCTDMATLTKIDRNIVETKATHEIRWVGSROKSNETWKNEDGSVISE 180
DB 121 LTWESKQYCTDMATLTKIDRNIVETKATHEIRWVGSROKSNETWKNEDGSVISE 180
QY 181 NMFEFLDEGKNNCAVFPNGSMHPTFCENKHYLNCERKAGTKVDLP 229
DB 181 NMFEFLDEGKNNCAVFPNGSMHPTFCENKHYLNCERKAGTKVDLP 229

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RESULT 13
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AC ABUS9034 standard; Protein; 229 AA.
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XX ABUS9034;
DT 16-APR-2003 (first entry)
DB Human secreted/transmembrane protein, #171.
XX Human, PRO; secreted; transmembrane; signal peptide;
XX pharmaceutical; diagnostic; biosensor; bioreactor; tumour; therapeutic;
XX colon cancer; lung cancer; breast cancer;cancer; gene therapy.
OS Homo sapiens.
XX
XX US2002142961-A1.
PN 03-OCT-2002.
PD
XX
XX 19-NOV-2001; 2001US-0989721.
PE
PR 05-NOV-1997; 97WO-US20069.
PR 17-SEP-1998; 98WO-US19437.
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PR 02-JUN-1999; 99WO-US21252.
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PR 18-FEB-2000; 2000WO-US04341.
PR 22-FEB-2000; 2000WO-US04414.
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 PR 28-AUG-2001; 2001US-0941992.  
 XX  
 XX  
 PA (GETH ) GENENTECH INC.  
 XX  
 PI Ashkenazi AJ, Baker KP, Botstein D, Desrochers L, Eaton DL;  
 PI Ferrara N, Fong S, Gerber H, Gerritsen NE, Goddard A, Godowski PI;  
 PI Girmaldi JC, Gueney AL, Kijavlin IV, Napier MA, Pan J, Paoni NF;  
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;  
 PI Zhang Z;

XX  
 DR WPI; 2003-155950/15.  
 XX  
 XX New secreted and transmembrane PRO polypeptides (e.g. PRO183, PRO184,  
 PT PRO301 or PRO846) useful as targets for therapeutic intervention in  
 PT cancers (e.g. lung or breast cancers), or for diagnosing these cancers  
 PT  
 XX  
 XX Claim 12; Fig 306; 647pp; English.  
 XX  
 XX The invention discloses isolated PRO secreted/transmembrane polypeptides  
 CC comprising a sequence without signal peptide and the nucleic acid  
 CC encoding them. The polypeptides can be used to raise antibodies that  
 CC specifically bind to the PRO polypeptide, for linking a bioactive  
 CC molecule to a cell expressing a PRO protein and for modulating at least  
 CC one biological activity of a cell. The PRO polypeptides or  
 CC polynucleotides are also useful as pharmaceuticals, diagnostics or  
 CC biosensors or bioreactors, for detecting or treating e.g. tumours in  
 CC mammals, e.g. humans, dogs, cats, cattle, horses, sheep, pigs, goats or  
 CC rabbits as targets for therapeutic intervention in certain cancers (e.g.  
 CC colon, lung or breast cancers) and diagnostic determination of the  
 CC presence of these cancers. The PRO polypeptides are also useful as  
 CC molecular weight markers or for chromosome identification. The PRO genes  
 CC are useful as hybridisation probes or for screening libraries of human  
 CC cDNA, genomic DNA or RNA. The PRO genes may also be used in gene  
 CC therapy, particularly for replacing a defective gene. The sequences  
 CC presented in AB059900-AB059046 are the PRO polypeptides of the invention.  
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 Best Local Similarity 99.6%; Pred. No. 6.5e-119;  
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 DB 121 LTWESKQYCTDMKATLTKIDNRIVEYIYARFTHLIRWGLSSQKSNWVWKEDEGSYISE 180  
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 XX  
 DT 26-FEB-2003 (first entry)  
 XX  
 DE Human PRO1384 polypeptide.  
 XX  
 KW Human; PRO polypeptide; secreted protein; transmembrane protein;  
 KW genetic disorder; antibacterial; immunosuppressive.  
 XX  
 OS Homo sapiens.  
 OS  
 PN US2002103125-A1.  
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 PD 01-AUG-2002.  
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 XX 20-NOV-2001; 2001US-0989731.  
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 XX 05-NOV-1997; 97WO-US20069.



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 XX Human; PRO; secreted polypeptide; transmembrane polypeptide;  
 KW toxin; radiolabel; cell death; gene mapping; chromosome mapping;  
 KW protein electrophoresis; genetic disorder; immunosuppressive; cytostatic;  
 KW antibacterial.  
 XX  
 XX Homo sapiens.  
 OS  
 PN US2002123463-A1.  
 PD  
 XX 05-SEP-2002.  
 PF 19-NOV-2001; 2001US-0989732.  
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 PR 18-JUN-1998; 98US-089907P.  
 PR 18-JUN-1998; 98US-089908P.  
 PR 28-AUG-2001; 2001US-0941992.

XX (GENTH ) GENENTECH INC.  
 PA  
 XX  
 PI Ashkenazi AJ, Baker KP, Borstein D, Desnoyers L, Eaton DL,  
 PI Ferrara N, Fong S, Gerber H, Gierlsen ME, Goddard A, Godowski PJ,  
 PI Grimaldi JC, Gurney AL, Kijavita JV, Napier MA, Pan J, Paoni NF,  
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams FW, Wood WI,  
 PI Zhang Z;  
 XX  
 XX WPI; 2003-066810/06.  
 DR N-PSDB; ABX17181.  
 DR  
 XX  
 PT Novel secreted and transmembrane polypeptide for modulating biological  
 PT activity of cell expressing the polypeptide, identifying agonists or  
 PT antagonists of polypeptide, and as molecular weight markers -  
 XX  
 PS Claim 12; Fig 306; 655pp; English.  
 CC The invention relates to a secreted and transmembrane polypeptide, termed  
 CC PRO polypeptide, and the polynucleotide encoding it. The polypeptide is  
 CC useful for detecting PRO polypeptides and for linking a bioactive  
 CC molecule to a cell expressing the above polypeptides, where the bioactive

CC molecule is a toxin, radiolabel or an antibody. The bioactive material  
 CC causes the death of the cell. The polypeptide is useful for identifying  
 CC agonists or antagonists of the PRO polypeptide, for preparing variants of  
 CC PRO, as a molecular weight marker for protein electrophoresis purposes  
 CC and the PRO polynucleotide is useful for recombinantly expressing those  
 CC markers. The polynucleotide is also useful as a hybridisation probe, in  
 CC chromosome and gene mapping, in generation of antisense RNA and DNA, in  
 CC the preparation of PRO polypeptide, for generating transgenic animals or  
 CC knockout animals which in turn are useful in the development and  
 CC screening of therapeutically useful reagents, to construct hybridisation  
 CC probes for mapping the gene which encodes PRO and for the genetic  
 CC analysis of individuals with genetic disorders, in gene therapy, for  
 CC chromosome identification, as a chromosome marker and for generating  
 CC probes for PCR, Northern analysis, Southern analysis and Western  
 CC analysis. This sequence represents a human PRO polypeptide of the  
 CC invention.

XX  
 XX  
 SQ Sequence 229 AA:

Query Match 99.4%; Score 1253; DB 24; Length 229;  
 Best Local Similarity 99.6%; Pred. No. 6,5e-119;  
 Matches 228; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MODEDGYITLNTKTRKPAIVSVGPASSFWRRVVALILLICVGMVGLVALGIWSVMQRN 60  
 DB 1 MODEDGYITLNTKTRKPAIVSVGPASSFWRRVVALILLICVGMVGLVALGIWSVMQRN 60  
 QY 61 YLQDENENRTGTLQQLAKRFQYVVKQSELKGFKFKHKSPPCDTNWRYGDSYGFPRN 120  
 DB 61 YLQDENENRTGTLQQLAKRFQYVVKQSELKGFKFKHKSPPCDTNWRYGDSYGFPRN 120  
 QY 121 LTWESKQYCTDMNATLTKIDNENIVEYIKARTHLIRWGLSRQSNVWKMDGSYIS 180  
 DB 121 LTWESKQYCTDMNATLTKIDNENIVEYIKARTHLIRWGLSRQSNVWKMDGSYIS 180  
 QY 181 NMFEFLDGGKNNCAVFHNGKAPTECENKHYLMCEKXGMTKVDLP 229  
 DB 181 NMFEFLDGGKNNCAVFHNGKAPTECENKHYLMCEKXGMTKVDLP 229

RESULT 16

ABP43587 standard; Protein; 229 AA.

XX  
 XX  
 AC ABP43587;

XX  
 XX  
 DT 26-FEB-2003 (first entry)

XX  
 XX  
 DE Membrane bound protein PRO1384.

XX  
 XX  
 KW Neuroprotective; immunomodulator; cancer; chromosome 12;  
 KW cytosolic; anti-inflammatory; gene therapy; nutritional supplement;  
 KW wound; burn; ulcer; Alzheimer's disease; Huntington's disease;  
 KW amyotrophic lateral sclerosis; autoimmune disorder; inflammation;  
 KW vulnary.

XX  
 XX  
 OS Homo sapiens.

XX  
 XX  
 PN WO20023111-A2.

XX  
 XX  
 PD 18-APR-2002.

XX  
 XX  
 PF 11-OCT-2001; 2001WO-US27760.

XX  
 XX  
 PR 12-OCT-2000; 2000US-0687527.

XX  
 XX  
 PA (HUSE-) HUSBQ INC.

XX  
 XX  
 PI Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao Q, Ren F;

XX  
 XX  
 PI Xue AJ, Yang Y, Wehrman T, Drmanac RT;

XX  
 XX  
 DR WPI; 2002-426278/45.

XX  
 XX  
 DR N-PSDB; ABO60831.

XX  
 XX  
 PT New polypeptides and their encoded proteins, useful as nutritional  
 PT sources or supplements, or in gene therapy, particularly for treating  
 PT wounds, Alzheimer's disease, amyotrophic lateral sclerosis, cancer or  
 PT inflammation -

PS Claim 20; SEQ ID # 490; 357bp + sequence listing; English.

XX  
 XX  
 CC The invention relates to 446 newly isolated polynucleotide sequences.  
 CC The activity of polynucleotides of the invention may be described as,  
 CC vulnerary, neuroprotective, immunomodulator, cytosolic and the invention  
 CC anti-inflammatory. Compositions comprising nucleic acids of the invention  
 CC are useful for treating a mammalian subject, or as nutritional sources or  
 CC supplements. These are useful in gene therapy, particularly for treating  
 CC wounds, burns or ulcers, Alzheimer's disease, Huntington's disease,  
 CC amyotrophic lateral sclerosis, autoimmune disorders, cancer or  
 CC inflammation. The nucleic acids and polypeptides are also useful in  
 CC diagnostic and research methods. The sequences given in records  
 CC ABP43544-ABP43989 represent polypeptides encoded by polynucleotides of  
 CC the invention.  
 CC NOTE: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences.

XX  
 XX  
 SQ Sequence 229 AA:

Query Match 98.7%; Score 1245; DB 23; Length 229;  
 Best Local Similarity 99.1%; Pred. No. 4,2e-118;  
 Matches 227; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 MODEDGYITLNTKTRKPAIVSVGPASSFWRRVVALILLICVGMVGLVALGIWSVMQRN 60  
 DB 1 MODEDGYITLNTKTRKPAIVSVGPASSFWRRVVALILLICVGMVGLVALGIWSVMQRN 60  
 QY 61 YLQDENENRTGTLQQLAKRFQYVVKQSELKGFKFKHKSPPCDTNWRYGDSYGFPRN 120  
 DB 61 YLQDENENRTGTLQQLAKRFQYVVKQSELKGFKFKHKSPPCDTNWRYGDSYGFPRN 120  
 QY 121 LTWESKQYCTDMNATLTKIDNENIVEYIKARTHLIRWGLSRQSNVWKMDGSYIS 180  
 DB 121 LTWESKQYCTDMNATLTKIDNENIVEYIKARTHLIRWGLSRQSNVWKMDGSYIS 180  
 QY 181 NMFEFLDGGKNNCAVFHNGKAPTECENKHYLMCEKXGMTKVDLP 229  
 DB 181 NMFEFLDGGKNNCAVFHNGKAPTECENKHYLMCEKXGMTKVDLP 229

RESULT 17

ABR39424 standard; protein; 229 AA.

XX  
 XX  
 AC ABR39424;

XX  
 XX  
 DT 12-JUN-2003 (first entry)

XX  
 XX  
 DE Human GENSET polypeptide clone name lectir.

XX  
 XX  
 KW GENSET; cytosolic; gene therapy; cancer; transgenic; human.

XX  
 XX  
 OS Homo sapiens.

XX  
 XX  
 PN WO2003014151-A2.

XX  
 XX  
 PD 20-FEB-2003.

XX  
 XX  
 PF 15-OCT-2001; 2001WO-IB02321.

XX  
 XX  
 PR 10-AUG-2001; 2001US-311305P.

XX  
 XX  
 PR 24-AUG-2001; 2001US-314734P.

XX  
 XX  
 PR 07-SEP-2001; 2001US-318204P.

XX  
 XX  
 PR 01-OCT-2001; 2001US-326470P.

XX  
 XX  
 PA (GENSET) GENSET SA.







FT Modified-site 134..137  
 /note="Asn is N-glycosylated"  
 FT Modified-site 144..147  
 /note="Casein kinase II phosphorylation site"  
 FT Modified-site 155..157  
 /note="Protein kinase C phosphorylation site"  
 FT Modified-site 166..168  
 /note="Protein kinase C phosphorylation site"  
 FT Modified-site 166..169  
 /note="Casein kinase II phosphorylation site"  
 FT Modified-site 182..187  
 /note="N-myristoylation site"  
 FT Modified-site 184..187  
 /note="Asn is N-glycosylated"  
 FT Modified-site 207..209  
 /note="Protein kinase C phosphorylation site"  
 FT Modified-site 207..210  
 /note="Casein kinase II phosphorylation site"  
 FT Modified-site 223..226  
 /note="Casein kinase II phosphorylation site"

MO20030831-A1.  
 03-MAY-2001.  
 27-OCT-2000; 2000WO-US29797.  
 27-OCT-1999; 99US-0417796.  
 17-MAY-2000; 2000US-0572275.  
 (MILL-) MILLBENTUM PHARM INC.  
 Fraser CC, Hodge NR;  
 WPI; 2001-300479/31.  
 N-PSDB; AAS04268.

PT New nucleic acid molecule encoding type II transmembrane proteins  
 useful for treating immune related disorders -  
 PS Claim 9; Fig 6; 137pp; English.

CC The present sequence representing a novel murine secreted protein  
 CC CDNA 269 is isolated from clone Jtmac04e07 from a mouse megakaryocyte  
 CC CDNA library. Human TANGO 269 (AAU02495) is also described. TANGO 269  
 CC which is a type II transmembrane protein shows sequence homology to  
 CC human lectin-like oxidised low density lipoprotein receptor (LOX-1).  
 CC TANGO 269 may bind oxidised low density lipoprotein (OxLDL) to modulate  
 CC the pathway. TANGO 269 may be used to liver disorders (e.g. cirrhosis),  
 CC bone marrow, blood and haematopoietic associated disorders (e.g.  
 CC leukaemia), splenic disorders (e.g. splenomegaly), cardiovascular  
 CC disorders (e.g. ischaemic heart disease, atherosclerosis), immune  
 CC disorders (e.g. arthritis, AIDS), inflammatory disorders (e.g. bacterial  
 CC infection), TNP-alpha related disorders (e.g. acute myocarditis) and  
 CC platelet disorders (e.g. thrombosis). The invention also describes the  
 CC novel secreted protein human TANGO 298 (AAU02497).

XX Sequence 229 AA;

Query Match 61.5%; Score 776; DB 22; Length 229;  
 Best Local Similarity 63.0%; Pred. No. 1.8e-70;  
 Matches 145; Conservative 31; Mismatches 50; Indels 4; Gaps 3;

QY 1 MODEDGYITLNTKRRPAIVSVGPASSFWRRVVALILLICVGMVGVGVAIGI 60  
 DB 1 MODEDGYITLNTKRRPAIVSVGPASSFWRRVVALILLICVGMVGVGVAIGI 59  
 QY 61 YLQDENHNRGTGTLQALRFGQYVVKOSL--KGTFRKGCSPCDTNNVYGGSCGPR 118  
 DB 60 YLAEKENISATLQALRFGQYVVKOSL--KGTFRKGCSPCDTNNVYGGSCGPR 118  
 QY 119 HNTLWESKQYCTDMNATLILKIDNRNIVETIKARLIRWVGLSRQKSNFWKMDGSYI 178  
 DB 119 HNTLWESKQYCTDMNATLILKIDNRNIVETIKARLIRWVGLSRQKSNFWKMDGSYI 178

DB 119 RNLWESKQYCTDMNATLILKIDNRNIVETIKARLIRWVGLSRQKSNFWKMDGSYI 178  
 QY 179 SEMRFPFLDDGKGNMNCAYFHNGKHPRTFCNKHYYIMCERXGTMTPDOL 228  
 DB 179 RKNGLNSGNTENKNCAYLHNGKHPRTFCNKHYYIMCERXGTMTPDOL 228

# RESULT 21

AAV05317  
 ID AAV05317 standard; Protein; 280 AA.

AAV05317;  
 25-JUN-1999 (first entry)

DE Human secreted protein bns7\_-  
 XX Secreted protein; human; nutritional activity; cytokine; tissue growth;  
 KW cell proliferation; cell differentiation; immune stimulant; chemotaxis;  
 KW immune suppressant; haematopoiesis regulator; activator; inhibiting; cadherin;  
 KW chemokinesis; haemostasis; thrombolysis; anti-inflammatory; gene therapy;  
 KW tumour invasion suppressor; tumour inhibitor.

OS Homo sapiens.  
 EN WC9913066-A1.  
 XX 18-MAR-1999.  
 XX 08-SEP-1998; 98WO-US18724.  
 XX 08-SEP-1997; 97US-0929007.  
 XX (GENY) GENETICS INST INC.  
 XX Agostino MJ, Evans C, Jacobs K, Lavalie ER, McCoy JM,  
 PI Merberg D, Racie LA, Spaulding V, Treacy M;  
 XX WPI; 1999-229235/19.  
 DR N-PSDB; AAX33810.

PT New polynucleotides encoding secreted human proteins

PS Claim 8; Page 79; 96pp; English.

CC This sequence is a human secreted protein of the invention. The  
 CC secreted proteins were obtained from human adult placenta, foetal brain,  
 CC adult testes or adult blood cDNA libraries. The polynucleotides (PNS) and  
 CC proteins are predicted to have biological activities which would make  
 CC them suitable for treating, preventing or ameliorating medical conditions  
 CC in humans and animals, although no supporting data is given. Suggested  
 CC activities include nutritional activity, cytokine and cell  
 CC proliferation/differentiation activity, immune stimulating  
 CC (e.g. as vaccines) or suppressing activity, haematopoiesis regulating  
 CC activity, tissue growth activity, activator/inhibitor activity,  
 CC chemotactic/chemokinetic activity, haemostatic and thrombolytic activity,  
 CC receptor/ligand activity, anti-inflammatory activity, cadherin/tumour  
 CC invasion suppressor activity, and tumour inhibition activity. The PNS are  
 CC also stated to be useful for gene therapy.

XX Sequence 280 AA;

Query Match 28.0%; Score 352.5; DB 20; Length 280;  
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;  
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MODEDGYITLNTKRRPAIV-----SVGPASSFWRRVVALILLICVGMVGVGVAIGI 53  
 DB 11 MDDDDGDTMSSHSAATRRHPEPRRTFRAPSSFWRRVVALILLICVGMVGVGVAIGI 70  
 QY 54 M-----SVGQRYN-----LQDENHNRGTGTLQALRFGQYVVKOSL 89  
 DB 71 LFFQYQLSNTGQDTLSQWERLQNTSQELSLQVONIKLAGSLQVHAKLCKR-----E 124







KM cerebral ischaemia; arterial thrombosis; thrombolytic; antilipasemic;  
 KM coronary artery thrombosis; cerebral artery thrombosis; stroke;  
 KM intracardiac thrombosis; gene therapy; cardiovascular; vasodilator;  
 KM neuroprotectant; cerebroprotective.  
 XX Homo sapiens.  
 FN W0200179446-A2.  
 XX  
 XX  
 PD 25-OCT-2001.  
 XX  
 PD 16-APR-2001; 2001WO-US12529.  
 XX  
 PD 14-APR-2000; 2000US-197137P.  
 ER 20-JUN-2000; 2000US-0598042.  
 ER 03-AUG-2000; 2000US-0631451.  
 PR 22-SEP-2000; 2000US-0667299.  
 PR 17-NOV-2000; 2000US-0714936.  
 XX  
 PA (HYSE-) HYSEQ INC.  
 XX  
 PI Ballinger DG, Loeb D, Montgomery JR, Tang TY, Zhou P, Goodrich R,  
 PI Liu C, Asundi V, Zhao QA, Wehrman T, Dymnac RT, Ren F, Qian XB,  
 PI Wang D;  
 XX WPI: 2001-611724/70.  
 DR N-PSDE; AAD19233.  
 XX  
 PT Nucleic acids encoding human apolipoproteins, lipases, and lipoprotein  
 PT receptor polypeptides, useful for preventing diagnosing and treating  
 PT lipid metabolism disorders, thrombosis and cardiovascular diseases -  
 XX  
 PS Claim 10; Page 252; 266pp; English.  
 XX  
 CC The invention relates to polynucleotides encoding proteins CG122, CG179,  
 CC CG95, CG121, CG162, CG27, CG153 and CG168 which are related to proteins  
 CC involved in lipid metabolism and cardiovascular disease such as human  
 CC apolipoproteins, lipases and lipoprotein receptor proteins. These DNA  
 CC and protein sequences are useful for treating or preventing disorders  
 CC associated with apolipoproteins, lipases and lipoprotein receptor (ALR)  
 CC expression and for treating lipid metabolism, cardiovascular diseases  
 CC and thrombosis. Antibodies against these proteins are useful for  
 CC determining the presence of or predisposition to a disease associated  
 CC with altered levels of these sequences. ALR polypeptides are also  
 CC useful for identifying agents (agonists and antagonists) that bind to  
 CC them and cells expressing ALR proteins are useful for identifying a  
 CC therapeutic agent for use in treatment of a pathology related to  
 CC aberrant expression or physiological interactions of this polypeptide.  
 CC Vectors comprising these DNA and protein sequences are also useful for  
 CC producing ALR proteins. The nucleic acids and polypeptides of the  
 CC invention are also useful for the treatment of occlusive cardiovascular  
 CC diseases, myocardial infarction, cerebral ischaemia, angina, arterial  
 CC thrombosis, coronary artery thrombosis and cerebral artery thrombosis  
 CC or intracardiac thrombosis and stroke. The nucleic acids of the invention  
 CC are used in gene therapy. The present sequence is human protein  
 CC related to proteins involved in lipid metabolism.  
 XX  
 XX  
 XX Sequence 280 AA:  
 Query Match 28.0%; Score 352.5; DB 22; Length 280;  
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;  
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;  
 QY 1 MODEGYTTINIKRKPLV-----SVGPASSWFWVMAILLICVMVGVIAIGI 53  
 DB 11 MLDGDDTTLMSQASATRHPERRRAPSSTWPRVALTLTLVLIVLIIAGL 70  
 QY 54 W-----SYMGRNY-----LDENENRGTQQLAKRFQGVVVKSE 89  
 DB 71 LFPQYQLSNTGQDTISQMERLIGTSGELQVQNTKLASGLQHVAFKLR-----E 124  
 QY 90 LKGTFGHKSGPDCITNWRVYDSCYGFRRHLTWESQYCTDWNATLLKIDNRIVYI 149

DB 125 LYNKAGHRCSPCTEQMKHMGDNCQFYKDSKSMEDCKYFCLSENSTMILKINKGEULEFA 164  
 QY 150 KANTH---LIRVVGSRQKSNFVWKEDGSVISENNFEELE-DGKNNNCAVFNNGKM 203  
 DB 183 ASQSYSEFFYSYWTGTLIRPDSCRAWLMDQTPFTSELFIHIDVTSFRRSDCAVAINMI 244  
 QY 204 HPTFCENKHYLMCEERKAGMTKYDQL 228  
 DB 245 PSKDCKELRKRCVCERRRAGVKEPSL 269  
 RESULT 26  
 AAU29324  
 ID AAU29324 standard; Protein; 280 AA.  
 XX  
 AC AAU29324;  
 XX  
 DT 18-DEC-2001 (first entry)  
 XX  
 DE Human PRO polypeptide sequence #301.  
 XX  
 KM PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;  
 KM dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;  
 KM blood; chondrocyte cell; cell proliferation; cell differentiation; colon;  
 KM adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.  
 XX  
 OS Homo sapiens.  
 XX  
 FN W0200168848-A2.  
 XX  
 PD 20-SEP-2001.  
 XX  
 PF 28-FEB-2001; 2001WO-US06520.  
 XX  
 PR 01-MAR-2000; 2000WO-US05601.  
 PR 02-MAR-2000; 2000WO-US05841.  
 PR 03-MAR-2000; 2000US-1872032.  
 PR 06-MAR-2000; 2000US-1869682.  
 PR 14-MAR-2000; 2000US-189320P.  
 PR 14-MAR-2000; 2000US-189320P.  
 PR 15-MAR-2000; 2000WO-US06884.  
 PR 21-MAR-2000; 2000US-190828P.  
 PR 21-MAR-2000; 2000US-191007P.  
 PR 21-MAR-2000; 2000US-191048P.  
 PR 21-MAR-2000; 2000US-191314P.  
 PR 28-MAR-2000; 2000US-192653P.  
 PR 29-MAR-2000; 2000US-193032P.  
 PR 29-MAR-2000; 2000US-193053P.  
 PR 30-MAR-2000; 2000WO-US08439.  
 PR 04-APR-2000; 2000US-194449P.  
 PR 04-APR-2000; 2000US-194647P.  
 PR 11-APR-2000; 2000US-195975P.  
 PR 11-APR-2000; 2000US-196000P.  
 PR 11-APR-2000; 2000US-196187P.  
 PR 11-APR-2000; 2000US-196690P.  
 PR 11-APR-2000; 2000US-196820P.  
 PR 18-APR-2000; 2000US-198121P.  
 PR 18-APR-2000; 2000US-198585P.  
 PR 25-APR-2000; 2000US-199337P.  
 PR 25-APR-2000; 2000US-199550P.  
 PR 25-APR-2000; 2000US-199654P.  
 PR 03-MAY-2000; 2000US-201516P.  
 PR 17-MAY-2000; 2000WO-US13705.  
 PR 22-MAY-2000; 2000WO-US14042.  
 PR 30-MAY-2000; 2000WO-US14941.  
 PR 02-JUN-2000; 2000WO-US15264.  
 PR 05-JUN-2000; 2000US-209832P.  
 PR 28-JUN-2000; 2000WO-US20710.  
 PR 22-AUG-2000; 2000US-0644848.  
 PR 24-AUG-2000; 2000WO-US23328.  
 PR 08-NOV-2000; 2000WO-US30952.  
 PR 01-DEC-2000; 2000WO-US32678.  
 PR 20-DEC-2000; 2000WO-US34956.

XX (GENT) GENENTECH INC.  
 PA Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;  
 XX Pan U, Smith V, Watanabe CK, Wood WI, Zhang Z;  
 PI WPI; 2001-602746/68.  
 DR N-PSDB; AAS46225.  
 DR Novel nucleic acids encoding PRO polypeptides, used to diagnose the  
 PT presence of tumors, such as prostate and breast tumours, in mammals and  
 PT to screen for modulators of the compounds -  
 PS Claim 11; Fig 602; 774pp; English.  
 XX Sequences AAU2924-AAU29328 represent PRO polypeptides of the invention.  
 CC The PRO polypeptides and their associated nucleic acids can be used to  
 CC detect the presence of a tumour in a mammal by comparing the level of  
 CC expression of a PRO polypeptide in a test sample of cells from the animal  
 CC and a control sample of normal cells, whereby a higher level of  
 CC expression in the test sample indicates the presence of a tumour in the  
 CC mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats  
 CC and rabbits but are preferably human. The polypeptides can be used to  
 CC stimulate tumour necrosis factor (TNF) alpha release from human blood,  
 CC when contacted with it. A specific polypeptide can be used to stimulate  
 CC the proliferation or differentiation of chondrocyte cells. The PRO  
 CC proteins can be used to determine the presence of tumours and also  
 CC susceptibility to tumour development, particularly adrenal, lung, colon,  
 CC breast, prostate, rectal, cervical, or liver tumours, in mammalian  
 CC subjects. The oligonucleotide probes specific for the PRO nucleic acids  
 CC can be used for genetic analysis of individuals with genetic disorders.  
 XX Sequence 280 AA;  
 SQ  
 Query Match 28.0%; Score 352.5; DB 22; Length 280;  
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;  
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;  
 QY 1 MODEDGYITLNKTRKPAV-----SVGPASSFWRRVMAILLILICVGVVGLVAGI 53  
 DB 11 MLDDDDGTMTSLHSQASATRRHPEPRTERHAPSSTWRPVALTLTLCTVLILGLAAGL 70  
 QY 54 W-----SYMGRNY-----LQDENENRTGLQGLAKRRCQYVVKQSE 89  
 DB 71 LFPQYQJLSTNGQDTISQMEERLNGTSEQLQVQNIKLASLQHVAEKLCR-----E 124  
 QY 90 LKGTFRKHGKSPCDTNWRYGDSQYGFPRHNLTWESKOYCTDMNATLLKIDNNIVEYT 149  
 DB 125 LYNKAGAHRCSPCTEQWKMHDNCTQFYKSKSWEDCKYFGLSENSTMLKINKGEJLEFA 184  
 QY 150 KARTH-----LIRWGLSRQKSNVWKWEDSVISNNMEFLFD--GKANNCAYFHNKGM 203  
 DB 185 ASQSYSEPFYSYWTGLLRPDSGKXALWMDGTPFTSELPHIITDVTSRSDCVAILNGMI 244  
 QY 204 HPTFCENGHYLMCERKAGTKVDOL 228  
 DB 245 FSKDCKELKRCVCERRAGWKPESL 269  
 RESULT 27  
 AAM93544  
 ID AAM93544 standard; Protein; 280 AA.  
 AC AAM93544;  
 XX  
 XX 06-NOV-2001 (first entry)  
 XX  
 DE Human polypeptide, SEQ ID NO: 3297.  
 XX  
 KW Human; full length cDNA; cDNA synthesis; oligo-capping.  
 XX  
 OS Homo sapiens.  
 XX

PN EPI130034-A2.  
 PD 05-SEP-2001.  
 XX  
 XX 07-JUL-2000; 2000EP-0114089.  
 XX  
 XX 08-JUL-1999; 99QJP-0194486.  
 PR 11-JAN-2000; 2000JP-0118774.  
 PR 02-MAY-2000; 2000DP-0183765.  
 XX  
 XX (HELI-) HELIX RES INST.  
 XX  
 PI Ota T, Nishikawa T, Isogai T, Hayashi K, Ishii S, Kawai Y;  
 PI Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;  
 DR N-PSDB; AAK34474.  
 DR WPI; 2001-524255/58.  
 XX  
 PT 830 Primers useful for synthesizing full length cDNA clones and their  
 PT use in genetic manipulation -  
 PS Claim 8; SEQ ID NO 3297; 1380bp + sequence listing; English.  
 XX  
 CC The invention relates to primers for synthesizing full length cDNA  
 CC clones. 830 cDNA molecules encoding a human protein have been  
 CC isolated and nucleotide sequences of 5' and 3' ends of the cDNA  
 CC molecules have been determined. Primers for synthesizing the full length  
 CC cDNA are useful for clarifying the function of the protein encoded by  
 CC the cDNA. The full length clones were obtained by construction of full  
 CC length enriched cDNA libraries that were synthesised by the oligo-capping  
 CC method. The primers enable the production of the full length cDNA easily  
 CC without any special methods. The present sequence is a polypeptide  
 CC encoded by a full length human cDNA of the invention.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in CD-ROM format directly from EPO.  
 XX Sequence 280 AA;  
 SQ  
 Query Match 28.0%; Score 352.5; DB 22; Length 280;  
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;  
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;  
 QY 1 MODEDGYITLNKTRKPAV-----SVGPASSFWRRVMAILLILICVGVVGLVAGI 53  
 DB 11 MLDDDDGTMTSLHSQASATRRHPEPRTERHAPSSTWRPVALTLTLCTVLILGLAAGL 70  
 QY 54 W-----SYMGRNY-----LQDENENRTGLQGLAKRRCQYVVKQSE 89  
 DB 71 LFPQYQJLSTNGQDTISQMEERLNGTSEQLQVQNIKLASLQHVAEKLCR-----E 124  
 QY 90 LKGTFRKHGKSPCDTNWRYGDSQYGFPRHNLTWESKOYCTDMNATLLKIDNNIVEYT 149  
 DB 125 LYNKAGAHRCSPCTEQWKMHDNCTQFYKSKSWEDCKYFGLSENSTMLKINKGEJLEFA 184  
 QY 150 KARTH-----LIRWGLSRQKSNVWKWEDSVISNNMEFLFD--GKANNCAYFHNKGM 203  
 DB 185 ASQSYSEPFYSYWTGLLRPDSGKXALWMDGTPFTSELPHIITDVTSRSDCVAILNGMI 244  
 QY 204 HPTFCENGHYLMCERKAGTKVDOL 228  
 DB 245 FSKDCKELKRCVCERRAGWKPESL 269  
 RESULT 28  
 AAU12400  
 ID AAU12400 standard; Protein; 280 AA.  
 AC AAU12400;  
 XX  
 XX 24-OCT-2001 (first entry)  
 XX  
 DE Human PRO131 polypeptide sequence.  
 XX

KM Human secretory and transmembrane; PRO; mammalian; cancer; lung;  
 KM breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;  
 KM cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;  
 KM adipocyte; A-peptide; factor VIIa; gene therapy.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200140466-A2.  
 XX  
 PD 07-JUN-2001.  
 XX  
 PF 01-DEC-2000; 2000WO-US32678.  
 XX  
 PR 01-DEC-1999; 99WO-US28301.  
 PR 01-DEC-1999; 99WO-US28634.  
 PR 02-DEC-1999; 99WO-US28551.  
 PR 02-DEC-1999; 99WO-US28564.  
 PR 02-DEC-1999; 99WO-US28565.  
 PR 09-DEC-1999; 99US-0170262.  
 PR 16-DEC-1999; 99WO-US30095.  
 PR 20-DEC-1999; 99WO-US30911.  
 PR 20-DEC-1999; 99WO-US30999.  
 PR 30-DEC-1999; 99WO-US31243.  
 PR 06-JAN-2000; 2000WO-US00277.  
 PR 06-JAN-2000; 2000WO-US00376.  
 PR 11-FEB-2000; 2000WO-US03565.  
 PR 18-FEB-2000; 2000WO-US04341.  
 PR 18-FEB-2000; 2000WO-US04342.  
 PR 22-FEB-2000; 2000WO-US04414.  
 PR 24-FEB-2000; 2000WO-US04914.  
 PR 24-FEB-2000; 2000WO-US05004.  
 PR 01-MAR-2000; 2000WO-US05601.  
 PR 20-MAR-2000; 2000WO-US07377.  
 PR 21-MAR-2000; 2000WO-US07372.  
 PR 30-MAR-2000; 2000WO-US08439.  
 PR 17-MAY-2000; 2000WO-US13705.  
 PR 22-MAY-2000; 2000WO-US14042.  
 PR 30-MAY-2000; 2000WO-US14941.  
 PR 02-JUN-2000; 2000WO-US15264.  
 PR 10-NOV-2000; 2000WO-US30873.  
 ER  
 XX  
 PA (GERTH ) GENENTECH INC.  
 XX  
 PI Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W,  
 PI Geritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S,  
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WT, Zhang Z;  
 XX  
 DR WPI, 2001-408281/43.  
 DR N-PSDB; AAS21472.  
 XX  
 PT Isolated, secretory and transmembrane PRO polypeptide used to detect  
 PT other PRO polypeptides, link bioactive molecules to cells expressing  
 FT PRO polypeptides, and detect the presence of mammalian tumours e.g.  
 FT lung, breast, prostate, cervical -  
 XX  
 PS Claim 12; Fig 458; 813pp; English.  
 PS  
 XX  
 CC AAU21272-AAU2446 represent novel human secretory and transmembrane  
 CC PRO polypeptides. The PRO polypeptides are useful to detect other  
 CC PRO polypeptides, to link bioactive molecules to cells expressing  
 CC PRO polypeptides, to modulate biological activities of cells expressing  
 CC PRO polypeptides, and to detect the presence of mammalian lung, colon,  
 CC breast, prostate, rectal, cervical or liver tumours by comparing PRO  
 CC polypeptide expression in a cell sample to that in a control sample.  
 CC Some of the 275 sequences are also useful to stimulate the release of  
 CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the  
 CC proliferation or differentiation of chondrocytes, the proliferation or  
 CC gene expression in pericyte cells, the release of proteoglycans from  
 CC cartilage, the proliferation of inner ear utricular supporting cells or  
 CC of T-lymphocytes, the release of a cytokine from peripheral blood  
 CC monocytes (PMCs), or the proliferation of endothelial cells. Some of  
 CC the PRO polypeptides may modulate glucose or free fatty acid uptake by  
 CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide

CC to factor VIIa. The PRO polypeptides can be used in assays to identify  
 CC molecules involved in binding interactions. The polynucleotides encoding  
 CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,  
 CC transgenic or knock out animals and can be used in gene therapy.  
 XX  
 SQ Sequence 260 AA:  
 QY 1 MODEDGYITNITKRPALV-----SYGPASFWRRVAILLILICVGMVGLVATGI 53  
 Db 11 MDLDDGDTLWLSQSASATTPHPRPTTERRAPSTTRPVALLTLTCLVLLTGLALGL 70  
 QY 54 W-----SVQKNY-----LDENENRTGLTQLAKRFGQYVROSE 89  
 Db 71 LFFQYQLSNTGQDTLSQMERLGNTSQELQSLQVQIKLAGSLQHAETCR-----E 124  
 QY 90 LKGTFFKHKCSPCDTMWRVYIGDSYGFPRNLTWESKQYCTDMAATLLKIDNNIVET 149  
 Db 125 LYNKAGAHRCSPCTEQKXMGHNCYQFYKDSKSEDCYFCLSENSITLXINXQEDLEFA 184  
 QY 150 KARTH----LIRWGLSRKSNFVKWKEGDSVISEMPEFLD--GKMNMCAYFHNKGM 203  
 Db 185 ASQSISFFFSYNTGLLRPDPSGKALIMDGTPTSTFHLIIDVTSFRSRDCAALNGMI 244  
 QY 204 HPTFCENKHYLMCERRAGMTKVQJ 228  
 Db 245 FSKDCKELKRCVCERRAGMTKPEST 269  
 RESULT 29  
 ID AAB65251 standard; Protein; 280 AA.  
 XX  
 AC AAB65251;  
 XX  
 DT 02-APR-2001 (first entry)  
 XX  
 DE Human PRO1131 (UNQ569) protein sequence SEQ ID NO:319.  
 XX  
 KM Human; secreted and transmembrane protein; PRO; cytostatic;  
 KM cell death; cancer; chromosomal mapping; gene mapping; tissue typing;  
 KM diagnostic assay.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200073454-A1.  
 XX  
 PD 07-DEC-2000.  
 XX  
 PF 30-MAR-2000; 2000WO-US08439.  
 XX  
 PR 02-JUN-1999; 99WO-US12252.  
 PR 23-JUN-1999; 99US-0141037.  
 PR 07-JUL-1999; 99US-0143048.  
 PR 20-JUL-1999; 99US-0144758.  
 PR 26-JUL-1999; 99US-0145698.  
 PR 28-JUL-1999; 99US-0146222.  
 PR 17-AUG-1999; 99US-0149396.  
 PR 15-SEP-1999; 99WO-US21090.  
 PR 15-SEP-1999; 99WO-US21547.  
 PR 08-OCT-1999; 99US-0158663.  
 PR 30-NOV-1999; 99WO-US28313.  
 PR 01-DEC-1999; 99WO-US28301.  
 PR 16-DEC-1999; 99WO-US30095.  
 PR 20-DEC-1999; 99WO-US30911.  
 PR 05-JAN-2000; 2000WO-US00219.  
 PR 06-JAN-2000; 2000WO-US00376.  
 PR 11-FEB-2000; 2000WO-US03565.  
 PR 18-FEB-2000; 2000WO-US04341.  
 PR 22-FEB-2000; 2000WO-US04414.



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PR 24-FEB-2000; 2000MO-US04914.
PR 24-FEB-2000; 2000MO-US05004.
PR 02-MAR-2000; 2000MO-US05841.
PR 15-MAR-2000; 2000MO-US06884.
PR 20-MAR-2000; 2000MO-US07377.
XX
XX (GENTH ) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Bolstein D, Desnuyers L, Eaton DL,
XX PI Ferreira N, Fong S, Gerber H, Gerritsen ME, Goddard A,
XX PI Grimaldi CJ, Gurney AL, Kijavini IU, Napier MA, Pan U, Paoni NF,
XX PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,
XX PI Zhang Z;
XX
XX WPI; 2001-032160/04.
XX N-PSDB; AAF44218.
XX
XX PRO polynucleotides used to produce polypeptides used to target
XX PT bioactive molecules such as toxins, radiolabels or antibodies, to
XX PT specific cells, to cause targeted cell death -
XX
XX Claim 12; Fig 230; 935pp; English.
XX
XX The present invention describes human secreted and transmembrane PRO
XX CC proteins. The PRO proteins have cytostatic activity. The PRO proteins
XX CC can be used for targeted delivery of bioactive molecules, such as
XX CC toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide
XX CC sequences, and their fragments, can be used as hybridization probes, in
XX CC chromosomal and gene mapping, and in the generation of anti-sense RNA
XX CC and DNA. They may also be used to produce transgenic animals which are
XX CC used to develop and screen therapeutically useful reagents. The PRO
XX CC nucleotide and protein sequence can be used for tissue typing and in
XX CC treating cancer. Anti-PRO antibodies can be used in diagnostic assays.
XX CC AAF44270 to AAF44470 represent PCR primers and hybridisation probes used
XX CC in the isolation of human PRO sequences. AAF44087 to AAF44269 and
XX CC AAF65154 to AAF65300 represent human PRO polynucleotide and protein
XX CC sequences given in the exemplification of the present invention.
XX
XX Sequence 280 AA;
SQ
Query Match 28.0%; Score 352.5; DB 22; Length 280;
Best Local Similarity 29.1%; Pred. No. 2.3e-27;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;
QY 1 MODEGYITLNTKTKPALV-----SVGPASSFWWVALLILLCVGMVGVVALGI 53
DB 11 MDDDDGDTTMSLHSQASATTHPEPRRTERRHAPSSTWVPVALLTLTLCVALLIGLAAGL 70
QY 54 W-----SYMQRNY-----LQDENENRTGTLOQLAKRRCQYVVKOSE 89
DB 71 LFFQYQULSNTGQDTISQMERLNGTSGELOSLOVONIKLAGSLOHVAEKICR-----E 124
QY 90 LKGTFKHKSCSPQNTNNMYGSCGCFRRNHLTWESQYQCDWATLTKIDNRIVYI 149
DB 125 LYNKAGARCBPTQWQWNGDNCYQFYKDSKSWDCYFCLSENSTMLKINKQDDLEFA 184
QY 150 KARTH-----LIRVGLISROKSNVWKMEDGYSIENMEFLED--GKANMCAVYHNKX 203
DB 165 ASQSISEFFYSYWTOLLIPDSKAWLMDGTFSTSEPHIILDVSPSRDCAVILNGMI 244
QY 204 HPTFCENKHYLMCEKRAQNTKYDQL 228
DB 245 FSKDCKELRKVCERRRAGWVKPEST 269
XX
XX RESULT 30
XX ID AAB50959 standard; Protein; 280 AA.
XX AC AAB50959;
XX
XX DT 21-MAR-2001 (first entry)
XX

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DS Human PRO1131 protein.
XX
XX Human; PRO; cytostatic; neurotropic; neuroprotective; respiratory general;
XX KW antiinflammatory; antiangiogenic; immunosuppressive; immunostimulant;
XX KW PRO agonist; cancer; inflammatory disorder; immunological disorder.
XX
XX Homo sapiens.
XX
XX WO200073348-A2.
XX
XX 07-DEC-2000.
XX
XX 30-MAY-2000; 2000MO-US14941.
XX
XX 02-JUN-1999; 99WO-US12252.
XX PR 22-JUN-1999; 99US-0140650.
XX PR 23-JUN-1999; 99US-0144037.
XX PR 20-JUL-1999; 99US-0144758.
XX PR 01-SEP-1999; 99WO-US20111.
XX PR 08-SEP-1999; 99WO-US20594.
XX PR 29-OCT-1999; 99US-0162506.
XX PR 30-NOV-1999; 99WO-US28313.
XX PR 01-DEC-1999; 99WO-US28634.
XX PR 02-DEC-1999; 99WO-US28551.
XX PR 16-DEC-1999; 99WO-US30095.
XX PR 20-DEC-1999; 99WO-US30399.
XX PR 06-JAN-2000; 2000MO-US03576.
XX PR 11-FEB-2000; 2000MO-US03565.
XX PR 18-FEB-2000; 2000MO-US04341.
XX PR 18-FEB-2000; 2000MO-US04342.
XX PR 02-MAR-2000; 2000MO-US05841.
XX PR 03-MAR-2000; 2000US-0187202.
XX PR 10-MAR-2000; 2000MO-US06319.
XX PR 15-MAR-2000; 2000MO-US06884.
XX PR 30-MAR-2000; 2000MO-US08439.
XX PR 17-MAY-2000; 2000MO-US13705.
XX
XX (GENTH ) GENENTECH INC.
XX
XX Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W, Kabakoff RC;
XX PI Shelton DL, Smith V, Watanabe CK, Wood WI;
XX
XX WPI; 2001-016509/02.
XX N-PSDB; AAC91561.
XX
XX Twenty eight nucleic acids encoding PRO polypeptides which are useful
XX PT for treating various tumors, e.g. breast cancer, and other
XX PT inflammatory, angiogenic and immunological disorders -
XX
XX Claim 31; Fig 18; 188pp; English.
XX
XX The present sequence is one of twenty eight novel PRO polypeptides. The
XX CC PRO polypeptides and their agonists, including antibodies, peptides, and
XX CC small molecule agonists, may be used to treat various tumours, e.g.,
XX CC cancers such as breast cancer, ovarian cancer, renal cancer, colorectal
XX CC cancer, uterine cancer, prostate cancer, lung cancer, bladder cancer,
XX CC central nervous system cancer, melanoma or leukaemia. They are also
XX CC useful for treating other disorders such as neuronal, glial, astrocytal,
XX CC hypothalamic and other glandular, macrophage, epithelial, stromal and
XX CC blastocoeleic disorders, and inflammatory, ang-iogenic and immunological
XX CC disorders.
XX
XX Sequence 280 AA;
SQ
Query Match 28.0%; Score 352.5; DB 22; Length 280;
Best Local Similarity 29.1%; Pred. No. 2.3e-27;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;
QY 1 MODEGYITLNTKTKPALV-----SVGPASSFWWVALLILLCVGMVGVVALGI 53
DB 11 MDDDDGDTTMSLHSQASATTHPEPRRTERRHAPSSTWVPVALLTLTLCVALLIGLAAGL 70
QY 54 W-----SYMQRNY-----LQDENENRTGTLOQLAKRRCQYVVKOSE 89

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Cc      71 LFFQYQLSNTGDTISQWBERIGNTSQELQVONITLQSLQVAVKLCR-----E 124
Cc      90 LKGTFGHKSCPDITNWRYYGDSYGFPRHNLTWESKOYCTDMATLLKIDRNIVEYI 149
Cc      125 LYNKAQHRCSPCTEQMKMGNDYGFYKDSKSWEDCKYFCISENSTMTKINKQEDLEFA 184
Cc      150 KARTH---LIRVGLSRQKSNVWKEWKGDSVISENMFELD--GKNNNCAYFHNGKM 203
Cc      185 ASQSYSEFFYSYWTGLLRPDSGKAMLMMDGTPTSLPHIITVTSPPSRDCAIINIGMI 244
Cc      204 HPTFCENKHYLMGERKAGMTKVDQL 228
Cc      245 FSKDCKELKRCVCERRAGWKPESL 269

Db      245 FSKDCKELKRCVCERRAGWKPESL 269

RESULT 31
ABP64809
ID   ABP64809 standard; Protein; 280 AA.
AC   ABP64809;
XX   25-FEB-2003 (first entry)
DE   Human protein SEQ ID 469.
XX
XX   Human; expressed sequence tag; EST;
XX   haemotopoietic disorder; central nervous system disease; viral infection;
XX   peripheral nervous system disease; non-healing wound; infectious disease;
XX   immune deficiency; immune disorder; bacterial infection; allergy; cancer;
XX   fungal infection; autoimmune disorder; coagulation disorder; neutrotropic;
XX   antiallergic; antinflammatory; immunosuppressive; neuroprotective;
XX   cytostatic; haemostatic; virucide; antibacterial; fungicide;
XX   immunostimulant; cerebroprotective.
XX
XX   Homo sapiens.
XX
XX   WO200259260-A2.
XX
XX   01-AUG-2002.
XX
XX   16-NOV-2001; 2001WO-US42950.
XX
XX   17-NOV-2000; 2000US-0714935.
XX
XX   {HYSE-} HYSEQ INC.
XX
XX   Tang YT, Goodrich RW, Liu C, Zhou P, Asundi V, Zhang C, Zhao Qa;
XX   Ren P, Xue AJ, Yang Y, Weinman T, Drmanac RT;
XX   WPI; 2002-590824/63.
XX
XX   N-PSDB; ABQ93935.
XX
XX   New isolated polynucleotide, useful in research, diagnostic or
XX   therapeutic methods, e.g. preventing or treating disorders involving
XX   aberrant protein expression or biological activity -
XX
XX   Claim 20; SEQ ID 469; 394pp; English.
XX
XX   The present invention relates to novel human coding sequences
XX   (ABQ93935-ABQ93968) and proteins (ABP64809-ABP65022). The sequences are
XX   useful in therapeutic, diagnostic and research methods. The
XX   polynucleotides may be used in the field of molecular biology as
XX   hybridisation probes, primers for PCR, for chromosome and gene mapping,
XX   for the recombinant production of protein, or in generation of anti-sense
XX   DNA or RNA. The polynucleotides are useful in diagnostics as expressed
XX   sequence tags (ESTs) for identifying expressed genes or for physical
XX   mapping of the human genome. The proteins may be used as molecular weight
XX   markers, or as nutritional sources or supplements. The proteins may be
XX   used to maintain and expand cell population in a totipotent or
XX   pluripotent state useful for re-engineering damaged or diseased
XX   tissues, transplantation, manufacture of bio-pharmaceuticals or the
XX   development of bio-sensors. The polynucleotides and proteins are useful

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Cc      for preventing, treating or ameliorating disorders involving aberrant
Cc      protein expression or biological activity, e.g. haematopoietic disorders,
Cc      central/peripheral nervous system diseases, mechanical and traumatic
Cc      disorders, non-healing wounds, immune deficiencies and disorders,
Cc      infectious diseases caused by viral, bacterial or fungal infection,
Cc      autoimmune disorders, allergic reactions and conditions, coagulation
Cc      disorders, or cancer. The polynucleotide sequences of the invention were
Cc      assembled from ESTs isolated mainly by sequencing by hybridisation, and
Cc      in some cases, sequences obtained from one or more public databases.
Cc      Note: The sequence data for this patent did not form part of the printed
Cc      specification, but was obtained in electronic format directly from WIPO
Cc      at ftp.wipo.int/pub/published_pcl_sequences.
Cc
Cc      Sequence 280 AA;
Cc
Cc      Query Match 28.0%; Score 352.5; DB 23; Length 280;
Cc      Best Local Similarity 29.1%; Pred.No. 2,3e-27;
Cc      Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

Cc      1 XODEGTYITLNTKTRKPAV-----SYGPPASFWWRMALLILLCYGVWGLWALGI 53
Cc      11 MLDDGDTTMSLHSQASATTRHPERPRTEHRAPDSSTWRPVALTLTLCLVLLGLAALGL 70
Cc      54 W-----SVQGRNY-----LDENENRTGTLQCLAKRRCQYVWKOSE 89
Cc      71 LFFQYQLSNTGDTISQWBERIGNTSQELQVONITLQSLQVAVKLCR-----E 124
Cc
Cc      90 LKGTFGHKSCPDITNWRYYGDSYGFPRHNLTWESKOYCTDMATLLKIDRNIVEYI 149
Cc      125 LYNKAQHRCSPCTEQMKMGNDYGFYKDSKSWEDCKYFCISENSTMTKINKQEDLEFA 184
Cc      150 KARTH---LIRVGLSRQKSNVWKEWKGDSVISENMFELD--GKNNNCAYFHNGKM 203
Cc      185 ASQSYSEFFYSYWTGLLRPDSGKAMLMMDGTPTSLPHIITVTSPPSRDCAIINIGMI 244
Cc
Cc      204 HPTFCENKHYLMGERKAGMTKVDQL 228
Cc      245 FSKDCKELKRCVCERRAGWKPESL 269

Db      245 FSKDCKELKRCVCERRAGWKPESL 269

RESULT 32
ABB95305
ID   ABB95305 standard; Protein; 280 AA.
AC   ABB95305;
XX   19-JUL-2002 (first entry)
DE   Human angiogenesis related protein PRO1131 SEQ ID NO: 166.
XX
XX   Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer;
XX   atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;
XX   cardiac; cytostatic; antiangiogenic; hypotensive; vulnerary;
XX   antiarteriosclerotic.
XX
XX   Homo sapiens.
XX
XX   WO200208284-A2.
XX
XX   31-JAN-2002.
XX
XX   09-JUL-2001; 2001WO-US21735.
XX
XX   20-JUL-2000; 2000US-219556P.
XX   25-JUL-2000; 2000US-220624P.
XX   25-JUL-2000; 2000US-220664P.
XX   28-JUL-2000; 2000WO-US20710.
XX   02-AUG-2000; 2000US-222695P.
XX   17-AUG-2000; 2000US-0643657.
XX   23-AUG-2000; 2000WO-US23522.
XX   24-AUG-2000; 2000WO-US23328.
XX   07-SEP-2000; 2000US-230978P.
XX   15-SEP-2000; 2000US-000000P.

```

PR 18-SEP-2000; 2000US-0664610.  
 PR 18-SEP-2000; 2000US-0665350.  
 PR 24-OCT-2000; 2000US-242922P.  
 PR 08-NOV-2000; 2000US-070923P.  
 PR 08-NOV-2000; 2000WO-US30952.  
 PR 10-NOV-2000; 2000WO-US30873.  
 PR 01-DEC-2000; 2000US-US32678.  
 PR 20-DEC-2000; 2000US-0747259.  
 PR 20-DEC-2000; 2000WO-US34956.  
 PR 22-JAN-2001; 2001US-0767603.  
 PR 28-FEB-2001; 2001US-0796498.  
 PR 28-FEB-2001; 2001WO-US06520.  
 PR 01-MAR-2001; 2001WO-US06666.  
 PR 09-MAR-2001; 2001US-0802706.  
 PR 14-MAR-2001; 2001US-0806889.  
 PR 22-MAR-2001; 2001US-0816744.  
 PR 05-APR-2001; 2001US-0828366.  
 PR 10-MAY-2001; 2001US-0854208.  
 PR 10-MAY-2001; 2001US-0854280.  
 PR 25-MAY-2001; 2001US-0866028.  
 PR 25-MAY-2001; 2001US-0866034.  
 PR 25-MAY-2001; 2001WO-US17092.  
 PR 30-MAY-2001; 2001US-0870574.  
 PR 30-MAY-2001; 2001WO-US17443.  
 PR 01-JUN-2001; 2001WO-US17800.  
 PR 20-JUN-2001; 2001WO-US19692.  
 PR 28-JUN-2001; 2001WO-US00000.

XX (GETH ) GENENTECH INC.  
 PA (BAKE/) BAKER K P.  
 PA (FERR/) FERRARA N.  
 PA (GERR/) GERBER E.  
 PA (GERE/) GERITSEN X E.  
 PA (GODD/) GODDARD A.  
 PA (GODO/) GODOWSKI P J.  
 PA (GURN/) GURNEY A L.  
 PA (HILL/) HILLAN K J.  
 PA (MARS/) MARSTERS S A.  
 PA (PANJ/) PAN J.  
 PA (PAON/) PAONI N F.  
 PA (STEP/) STEPHAN J F.  
 PA (WATA/) WATANABE C K.  
 PA (WILL/) WILLIAMS P M.  
 PA (WOOD/) WOOD W I.

PI Baker KP, Ferreira N, Gerber H, Geritsen ME, Goddard A;  
 PI Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;  
 PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;

XX WPI; 2002-171999/22.  
 DR N-PSDB; ABL95643.

XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,  
 FT useful in diagnosis and treatment of cardiovascular (e.g. myocardial  
 PT infarction), endothelial or angiogenic disorders in a mammal -

XX Claim 11; Fig 166; 567pp; English.

XX The present invention provides the protein and coding sequences of human  
 CC PRO proteins. These are useful for treating or diagnosing a  
 CC cardiovascular, endothelial or angiogenic disorder, including cardiac  
 CC hypertrophy, trauma, cancer, age-related macular degeneration,  
 CC atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,  
 CC angina, myocardial infarctions, thrombophlebitis, lymphatic tumour  
 CC angiogenesis (such as breast carcinoma and liver carcinoma) and wound  
 CC healing. The present sequence is a PRO protein of the invention.

XX Sequence 280 AA;

Query Match 28.0%; Score 352.5; D3 23; Length 280;  
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;  
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MODEDEYITLINIKRKPAIV-----SVGPASSFWMRVVALILLICVGMVGLVALGI 53  
 DB 11 MDDDDGDTWSLHSQSASATRRPRPRTRHRASSIMRPVALILLICVLLIGLALGL 70  
 QY 54 W-----SYMGRNY-----LQDENENFTGLLOQIAKFPQYVAKSE 89  
 DB 71 LRFQYVYLSNTGQDTISQMERLQNTSQELQSQVQNKIKLAGSLQVHAEKLCR-----E 124  
 QY 90 LKGTFGKHGKSPCDTMRVRYGDSYGFRRNLWESKQVCTMNAITLLINDNNIVEYI 149  
 DB 125 LYNKAGAHRCSPCTEQMKWGDNCYQPKDSKSWEDCKYFCLSENSTYALKINROEDILFA 184  
 QY 150 KARTH-----LIRWYGLSRKSNVEYWKWEDGSVISENFFLEED--GKANNCAVFNHGM 203  
 DB 185 ASQSYSEFFYSYWTGLRPSGKXALMDGTPTSELPHITIDVTSRSDCAVAINGXV 244  
 QY 204 HPTFCENKHYLMCEKKAQMTKVDQL 228  
 DB 245 FSKDCKELKRCVCERRRAGVYKFEEL 269

RESULT 33  
 ABB84899  
 ID ABB84899 standard; Protein; 280 AA.  
 XX ABB84899;  
 XX 16-MAY-2002 (first entry)  
 DE Human PRO1131 protein sequence SEQ ID NO:166.

XX Human; angiogenesis; cardiac; cytostratic; antiangiogenic; hypotensive;  
 KW vulnerary; antiatherosclerotic; PRO agonist; PRO antagonist; trauma;  
 KW gene therapy; cardiovascular disorder; endothelial disorder; cancer;  
 KW angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;  
 KW age-related macular degeneration; arterial restenosis; angina;  
 KW rheumatoid arthritis; myocardial infarction; thrombophlebitis;  
 KW lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;  
 KW wound healing; chromosome mapping; gene mapping.

XX Homo sapiens.  
 OS  
 XX  
 XX MO200200690-A2.  
 XX  
 PD 03-CAN-2002.

XX 20-JUN-2001; 2001WO-US19692.  
 PF 23-JUN-2000; 2000US-213637P.  
 XX 20-JUL-2000; 2000US-219556P.  
 PR 25-JUL-2000; 2000US-220624P.  
 PR 25-JUL-2000; 2000US-220664P.  
 PR 28-JUL-2000; 2000WO-US220710.  
 PR 02-AUG-2000; 2000US-222695P.  
 PR 17-AUG-2000; 2000US-064365P.  
 PR 23-AUG-2000; 2000WO-US23352.  
 PR 24-AUG-2000; 2000WO-US23328.  
 PR 07-SEP-2000; 2000US-230978P.  
 PR 18-SEP-2000; 2000US-0664610.  
 PR 18-SEP-2000; 2000US-0685350.  
 PR 24-OCT-2000; 2000US-242922P.  
 PR 08-NOV-2000; 2000US-070923P.  
 PR 08-NOV-2000; 2000WO-US30952.  
 PR 10-NOV-2000; 2000WO-US30873.  
 PR 01-DEC-2000; 2000WO-US32678.  
 PR 20-DEC-2000; 2000US-0747259.  
 PR 20-DEC-2000; 2000WO-US34956.  
 PR 22-JAN-2001; 2001US-0767603.  
 PR 28-FEB-2001; 2001US-0796498.  
 PR 28-FEB-2001; 2001WO-US06520.  
 PR 01-MAR-2001; 2001WO-US06666.  
 PR 09-MAR-2001; 2001US-0802706.  
 PR 14-MAR-2001; 2001US-0806889.

PR 22-MAR-2001; 2001US-0616744.  
 PR 05-APR-2001; 2001US-0828366.  
 PR 10-MAY-2001; 2001US-0854208.  
 PR 10-MAY-2001; 2001US-0854280.  
 PR 25-MAY-2001; 2001US-0866028.  
 PR 25-MAY-2001; 2001US-0866034.  
 PR 25-MAY-2001; 2001US-0870574.  
 PR 30-MAY-2001; 2001US-0870574.  
 PR 30-MAY-2001; 2001US-0870574.  
 PR 01-JUN-2001; 2001US-17800.  
 XX  
 PA (GETH ) GENENTECH INC.  
 XX  
 PI Baker KP, Ferrara N, Gerber H, Gerritsen MS, Goddard A,  
 PI Godowski PJ, Gunney AL, Hillan KJ, Marsters SA, Pan J, Pacini NF,  
 PI Stephan JF, Watanabe CK, Williams FM, Wood WI, Ye W;  
 DR N-PSDB; ABL88154.  
 XX  
 DR WPI; 2002-090516/12.  
 XX  
 PT One hundred and eighty seven nucleic acids encoding PRO polypeptides,  
 PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial  
 PT infarction), endothelial or angiogenic disorders in a mammal -  
 XX  
 PS Claim 11; Fig 166; 565PP; English.  
 XX  
 CC ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to  
 CC ABB85003. The PRO proteins and polynucleotides have cardiant, cytostatic,  
 CC antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic  
 CC activities, and can be used in gene therapy. The PRO polynucleotides,  
 CC proteins, agonists and antagonists are useful for treating or diagnosing  
 CC a cardiovascular, endothelial or angiogenic disorder in a mammal,  
 CC e.g. cardiac hypertrophy, trauma, cancer, age-related macular  
 CC degeneration, atherosclerosis, hypertension, arterial restenosis,  
 CC rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis,  
 CC lymphangitis, tumour angiogenesis (such as breast carcinoma and liver  
 CC carcinoma) and wound healing. The PRO polynucleotides have applications  
 CC in molecular biology, including use as hybridisation probes, and in  
 CC chromosome and gene mapping. ABL88259 to ABL88267 represent primers and  
 CC probes used in the exemplification of the present invention.  
 XX  
 SQ Sequence 280 AA;  
 Query Match 28.0%; Score 352.5; DB 23; Length 280;  
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;  
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;  
 QY 1 MODEGVTLNKIKPKPALV-----SVGPASFWWVVALILILCVGWVGLVALGI 53  
 DB 11 MDDDDGDTTWSLHSAQATTHHPBRTEHRAAPSTWAPALTLLTCLNLIIGLALGL 70  
 QY 54 W-----SYWQRNY-----LDENENRTGTLQOLAKRFQYVVKOSE 89  
 DB 71 LFFQYQIISNTGQDITISQMBELTNTSOELQVQNKIKGLQHVAKXCR-----E 124  
 QY 90 LKGTGKHKSPCTDNNRYGDSGCGFPRHNTTWESQYCTDNQATLILKIDNRITVYI 149  
 DB 125 LYNKAGARCSPTCTQWQKMGHNGCYQFYKDSKSWEDCXFCISNSTYWKINKQDLEFA 184  
 QY 150 KARTH-----LIRWVLSQKSNVWKWEDGSVTSINMFEPLD--GKGNMCAVYHNGGM 203  
 DB 185 ASQSYSEFFSYWTGLILRPSGKAWIMMDGIFFTSELHIITDVSPSRDCAVALINXI 244  
 QY 204 HPTPCENKHYIMCERRAGNTKYDOL 228  
 DB 245 FSKDCKELKRCVCCERRAGVXCESL 269  
 RESULT 34  
 AB071412  
 ID AB071412 standard; Protein; 280 AA.  
 XX  
 AC AB071412;

XX  
 DT 10-JUN-2003 (first entry)  
 DE Human PRO1131 protein.  
 XX  
 KM Human; PRO; secreted; transmembrane; cytostatic; TNF-alpha; blood;  
 KM tumour necrosis factor alpha release; chondrocyte cell; proliferation;  
 KM differentiation; tumour; gene therapy.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2003036143-A1.  
 XX  
 PD 20-FEB-2003.  
 XX  
 PF 02-JUL-2002; 2002US-0187600.  
 XX  
 PR 16-SEP-1998; 98WO-US19330.  
 PR 07-OCT-1998; 98WO-US21141.  
 PR 01-DEC-1998; 98WO-US25108.  
 PR 08-MAR-1999; 99WO-US08028.  
 PR 14-MAY-1999; 99WO-US10733.  
 PR 02-JUN-1999; 99WO-US12252.  
 PR 01-SEP-1999; 99WO-US20111.  
 PR 15-SEP-1999; 99WO-US21090.  
 PR 01-DEC-1999; 99WO-US28301.  
 PR 02-DEC-1999; 99WO-US28551.  
 PR 30-DEC-1999; 99WO-US31274.  
 PR 05-JAN-2000; 2000WO-US00219.  
 PR 18-FEB-2000; 2000WO-US04341.  
 PR 18-FEB-2000; 2000WO-US04342.  
 PR 22-FEB-2000; 2000WO-US04414.  
 PR 24-FEB-2000; 2000WO-US05004.  
 PR 01-MAR-2000; 2000WO-US05601.  
 PR 02-MAR-2000; 2000WO-US05841.  
 PR 15-MAR-2000; 2000WO-US06884.  
 PR 30-MAR-2000; 2000WO-US08439.  
 PR 17-MAY-2000; 2000WO-US13705.  
 PR 22-MAY-2000; 2000WO-US14042.  
 PR 30-MAY-2000; 2000WO-US14941.  
 PR 02-JUN-2000; 2000WO-US15264.  
 PR 28-JUL-2000; 2000WO-US20710.  
 PR 24-AUG-2000; 2000WO-US23328.  
 PR 08-NOV-2000; 2000WO-US30952.  
 PR 01-DEC-2000; 2000WO-US32678.  
 PR 20-DEC-2000; 2000WO-US34956.  
 PR 28-FEB-2001; 2001WO-US06520.  
 PR 01-JUN-2001; 2001WO-US17800.  
 PR 20-JUN-2001; 2001WO-US19652.  
 PR 29-JUN-2001; 2001WO-US21066.  
 PR 09-JUL-2001; 2001WO-US21735.  
 PR 29-AUG-2001; 2001WO-US27099.  
 PR 18-SEP-1997; 97US-059263P.  
 PR 18-SEP-1997; 97US-059266P.  
 PR 17-OCT-1997; 97US-062250P.  
 PR 21-OCT-1997; 97US-063486P.  
 PR 24-OCT-1997; 97US-063120P.  
 PR 24-OCT-1997; 97US-063121P.  
 PR 28-OCT-1997; 97US-063540P.  
 PR 28-OCT-1997; 97US-063541P.  
 PR 28-OCT-1997; 97US-063544P.  
 PR 28-OCT-1997; 97US-063564P.  
 PR 29-OCT-1997; 97US-063734P.  
 PR 31-OCT-1997; 97US-063870P.  
 PR 13-OCT-1997; 97US-064103P.  
 PR 13-NOV-1997; 97US-065111P.  
 PR 21-NOV-1997; 97US-066120P.  
 PR 24-NOV-1997; 97US-066466P.  
 PR 24-NOV-1997; 97US-066772P.  
 PR 11-DEC-1997; 97US-069335P.  
 PR 12-DEC-1997; 97US-069425P.  
 PR 17-DEC-1997; 97US-069870P.  
 PR 18-DEC-1997; 97US-069817P.



Db 245 RSKDCKELKRCVCERRAGWKEESL 269

## RESULT 35

ABU71425  
ID ABU71425 standard; protein; 280 AA.

AC ABU71425;

DT 09-JUN-2003 (first entry)

DE Human neoplasia inhibiting PRO polypeptide PRO1131.

Human; tumour; cancer; neoplasia; liver cancer; sarcoma;  
breast cancer; ovarian cancer; renal cancer; colorectal cancer; melanoma;  
uterine cancer; prostate cancer; lung cancer; bladder cancer; leukaemia;  
gastric cancer; pancreatic cancer; vulval cancer; thyroid cancer;  
central nervous system cancer; hepatic carcinoma; glioblastoma;  
neural disorder; glial disorder; astrocytoma; macrophage disorder;  
hypothalamic disorder; glandular disorder; blastocyst disorder;  
epithelial disorder; stromal disorder; immunologic disorder;  
inflammatory disorder; angiogenic disorder; immunologic disorder.

OS Homo sapiens.

PN US2002192209-A1.

PD 19-DEC-2002.

PF 30-NOV-2001; 2001US-0001054.

PR 10-SEP-1998; 98WO-US18824.

PR 05-JAN-1999; 99WO-US00106.

PR 08-MAR-1999; 99WO-US05028.

PR 20-APR-1999; 99WO-US08615.

PR 02-JUN-1999; 99WO-US12252.

PR 01-SEP-1999; 99WO-US20111.

PR 08-SEP-1999; 99WO-US20594.

PR 30-NOV-1999; 99WO-US28313.

PR 01-DEC-1999; 99WO-US28551.

PR 02-DEC-1999; 99WO-US30095.

PR 20-DEC-1999; 99WO-US30999.

PR 06-JAN-2000; 2000WO-US00376.

PR 11-FEB-2000; 2000WO-US03565.

PR 18-FEB-2000; 2000WO-US04341.

PR 18-FEB-2000; 2000WO-US04342.

PR 02-MAR-2000; 2000WO-US05841.

PR 15-MAR-2000; 2000WO-US06884.

PR 30-MAR-2000; 2000WO-US08439.

PR 17-MAY-2000; 2000WO-US13705.

PR 22-MAY-2000; 2000WO-US14042.

PR 30-MAY-2000; 2000WO-US14941.

PR 02-JUN-2000; 2000WO-US15264.

PR 11-AUG-2000; 2000WO-US22031.

PR 02-JUN-1998; 98US-087607P.  
PR 11-JUN-1998; 98US-088858P.  
PR 25-JUN-1998; 98US-090691P.  
PR 17-AUG-1998; 98US-096891P.  
PR 17-AUG-1998; 98US-096891P.  
PR 10-SEP-1998; 98US-099803P.  
PR 14-SEP-1998; 98US-100263P.  
PR 15-SEP-1998; 98US-100390P.  
PR 23-SEP-1998; 98US-101476P.  
PR 10-NOV-1998; 98US-107783P.  
PR 18-NOV-1998; 98US-108849P.  
PR 15-DEC-1998; 98US-112420P.  
PR 22-DEC-1998; 98US-113296P.  
PR 12-JAN-1999; 98US-115558P.  
PR 12-JAN-1999; 98US-115558P.  
PR 20-JAN-1999; 98US-116533P.  
PR 10-MAR-1999; 98US-123618P.  
PR 27-APR-1999; 98US-131294P.  
PR 22-JUN-1999; 98US-140650P.  
PR 23-JUN-1999; 98US-141037P.  
PR 20-JUL-1999; 98US-144758P.  
PR 29-OCT-1999; 98US-162506P.  
PR 09-DEC-1999; 98US-170262P.  
PR 03-MAR-2000; 2000US-187202P.  
PR 19-NOV-1998; 98US-0180997.  
PR 22-DEC-1998; 98US-0218517.  
PR 12-APR-1999; 98US-0284291.  
PR 12-APR-1999; 98US-0380137.  
PR 25-AUG-1999; 98US-0380138.  
PR 09-SEP-1999; 98US-0380913.  
PR 18-OCT-1999; 98US-0403297.  
PR 10-NOV-1999; 98US-0423741.  
PR 08-NOV-2000; 2000US-0709238.  
PR 09-MAR-2001; 2001US-0802706.  
PR 25-MAY-2001; 2001US-0866034.  
PR 01-JUN-2001; 2001US-0872035.  
PR 01-JUN-2001; 2001US-0872035.  
PR 14-JUN-2001; 2001US-0882636.  
PR 30-JUL-2001; 2001US-0919585.  
PR 06-AUG-2001; 2001US-0924419.  
PR 09-AUG-2001; 2001US-0927796.  
PR 13-AUG-2001; 2001US-0929404.  
PR 28-AUG-2001; 2001US-0941592.  
PR 04-SEP-2001; 2001US-0946374.

PR (GENENTECH INC.

PR Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W, Kabakoff RC;

PR Shelton DJ, Smith V, Watanabe CK, Wood WI;

PR WPI: 2003-328851/31.

PR N-PSDS; ACA57998.

PR Novel isolated PRO polypeptides e.g. PRO240, PRO381, PRO540, useful for

PR treating tumor, preferably cancer, or for treating neuronal, glial,

PR hypothalamic, stromal, inflammatory, angiogenic and immunologic

PR disorders -

PR Claim 32; Fig 18; 186pp; English.

CC The invention relates to an isolated secreted and transmembrane

CC polypeptide, designated as PRO polypeptide, PRO polypeptide lacking its

CC associated signal peptide or PRO polypeptide extracellular domain with or

CC without its associated signal peptide. The PRO polypeptide or an antibody

CC binding to it is useful for inhibiting the growth of a tumor cell. A

CC composition containing a PRO polypeptide is useful for inhibiting

CC neoplastic cell growth or for treating a tumour, preferably cancer (such

CC as liver, breast, ovarian, renal, colorectal, uterine, prostate, lung,

CC bladder, gastric, pancreatic, vulval, thyroid, central nervous system

CC cancer, hepatic carcinoma, sarcoma, glioblastoma, melanoma or

CC leukaemia) in a mammal. The PRO polypeptide is useful for identifying its

CC agonists. The PRO polypeptide or an antibody binding to it is useful in

CC the preparation of a medicament for treating a condition which is

CC responsive to the PRO polypeptide or an antibody binding to it. The PRO  
CC polypeptide or an antibody binding to it is also useful for treating  
CC neuronal, glial, astrocytic, hypothalamic, glandular, mastocytosis,  
CC epithelial, stromal, blastocytic, inflammatory, angiogenic and  
CC immunologic disorders. The present sequence represents the amino acid  
CC sequence of a PRO polypeptide of the invention.

XX Sequence 280 AA;

SQ Query Match 28.0%; Score 352.5; DB 24; Length 280;

Best Local Similarity 29.1%; Pred. No. 2,3e-27;

Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MQDEGGYITNITKRPALV-----SVGPASSFWKRVNALLILICVGNVGVVALGI 53

Db 11 MDDDDGTWLSHSQASATTPRHPERTERRAASSTTRPVALLILICVILGLAALG 70

QY 54 W-----SYMGRNY-----LQDENENTGTLLQGLAKRPGCYVYKQSE 89

Db 71 LPFOYGLSTNGQDTISQMERLGNISQELQSLQVQIKLAGSQQHYAEKLCR-----E 124

QY 90 LKGTFFGHKCSPCDTNWRYYGDSCYGFFRHNLTWESKQYCTDMATLKIENNTIVEYI 149

Db 125 LYNKAGAHRCSPCTGQMKWHEGDNICYQFYKSKSWEDCKYFCLSENSTYKLNKQDLFA 184

QY 150 KARTH---LIRVGLSRQKSNFVKWEDGSVISNNFEPLED--GKNNMCATFHNGKM 203

Db 185 ASQSYSEFFSYVYWGTLRPDSGKALMWDTGPTFSELHIIIDVTSRPSRCYVALNGMI 244

QY 204 HPTFCENGHYLMCRKAGMTVPDL 228

Db 245 FSKDCKELKRCVCRRAQWVPSL 269

RESULT 36

ABU65869 ID ABU65869 standard; Protein: 280 AA.

AC ABU65869;

DT 19-MAY-2003 (first entry);

XX Human secreted/transmembrane protein, SEQ ID 602.

XX Human, PRO; secreted protein; transmembrane protein; lung tumour;

XX cytoskeletal; antiarthritic; osteopathic; adrenal tumour; rectal tumour;

XX colon tumour; breast tumour; prostate tumour; liver tumour; arthritis;

XX cervical tumour; liver tumour; TNF-alpha release; arthritis;

XX tumour necrosis factor alpha; chondrocyte cell; bone disorder;

XX cartilage disorder; sports injury.

XX Homo sapiens.

OS US2003036156-A1.

PN 20-FEB-2003.

XX 02-JUL-2002; 2002US-0188767.

XX 16-SEP-1998; 98WO-US19330.

PR 07-OCT-1998; 98WO-US21141.

PR 01-DEC-1998; 98WO-US25108.

PR 08-MAR-1999; 99WO-US05028.

PR 14-MAY-1999; 99WO-US10733.

PR 02-JUN-1999; 99WO-US12252.

PR 01-SEP-1999; 99WO-US20111.

PR 15-SEP-1999; 99WO-US21090.

PR 01-DEC-1999; 99WO-US28301.

PR 02-DEC-1999; 99WO-US28551.

PR 30-DEC-1999; 99WO-US31274.

PR 05-JAN-2000; 2000WO-US00219.

PR 18-FEB-2000; 2000WO-US04341.

PR 18-FEB-2000; 2000WO-US04342.

PR 22-FEB-2000; 2000WO-US04414.

PR 24-FEB-2000; 2000WO-US05004.

PR 01-MAR-2000; 2000WO-US05601.

PR 02-MAR-2000; 2000WO-US05841.

PR 15-MAR-2000; 2000WO-US06884.

PR 30-MAR-2000; 2000WO-US08439.

PR 17-MAY-2000; 2000WO-US13705.

PR 22-MAY-2000; 2000WO-US14042.

PR 30-MAY-2000; 2000WO-US14941.

PR 02-JUN-2000; 2000WO-US15641.

PR 28-JUL-2000; 2000WO-US20710.

PR 24-AUG-2000; 2000WO-US23328.

PR 08-NOV-2000; 2000WO-US30952.

PR 01-DEC-2000; 2000WO-US32678.

PR 20-DEC-2000; 2000WO-US34956.

PR 28-FEB-2001; 2001WO-US06520.

PR 01-JUN-2001; 2001WO-US17800.

PR 20-JUN-2001; 2001WO-US19692.

PR 29-JUN-2001; 2001WO-US21066.

PR 09-JUL-2001; 2001WO-US21735.

PR 29-AUG-2001; 2001WO-US27099.

PR 18-SEP-1997; 97US-052823P.

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PR 21-OCT-1997; 97US-063486P.

PR 24-OCT-1997; 97US-063120P.

PR 24-OCT-1997; 97US-063112P.

PR 28-OCT-1997; 97US-063540P.

PR 28-OCT-1997; 97US-063541P.

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PR 28-OCT-1997; 97US-063564P.

PR 29-OCT-1997; 97US-063734P.

PR 31-OCT-1997; 97US-063870P.

PR 31-OCT-1997; 97US-064103P.

PR 13-NOV-1997; 97US-065311P.

PR 21-NOV-1997; 97US-066120P.

PR 24-NOV-1997; 97US-066466P.

PR 24-NOV-1997; 97US-066772P.

PR 11-DEC-1997; 97US-069335P.

PR 12-DEC-1997; 97US-069425P.

PR 17-DEC-1997; 97US-069870P.

PR 18-DEC-1997; 97US-068017P.

PR 10-MAR-1998; 98US-077450P.

PR 11-MAR-1998; 98US-077632P.

PR 11-MAR-1998; 98US-077649P.

PR 20-MAR-1998; 98US-078866P.

PR 27-MAR-1998; 98US-079939P.

PR 27-MAR-1998; 98US-079664P.

PR 31-MAR-1998; 98US-079786P.

PR 31-MAR-1998; 98US-080194P.

PR 01-APR-1998; 98US-080327P.

PR 01-APR-1998; 98US-080333P.

PR 08-APR-1998; 98US-081042P.

PR 08-APR-1998; 98US-081070P.

PR 09-APR-1998; 98US-081195P.

PR 15-APR-1998; 98US-081838P.

PR 21-APR-1998; 98US-082568P.

PR 21-APR-1998; 98US-082569P.

PR 22-APR-1998; 98US-082704P.

PR 22-APR-1998; 98US-082797P.

PR 28-APR-1998; 98US-083122P.

PR 29-APR-1998; 98US-083495P.

PR 29-APR-1998; 98US-083496P.

PR 29-APR-1998; 98US-083499P.

PR 29-APR-1998; 98US-083559P.

PR 06-MAY-1998; 98US-084366P.

PR 06-MAY-1998; 98US-084414P.

PR 07-MAY-1998; 98US-084639P.

PR 07-MAY-1998; 98US-084643P.

PR 15-MAY-1998; 98US-085579P.

PR 15-MAY-1998; 98US-085580P.

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PR 15-MAY-1998; 98US-0857002.
PR 18-MAY-1998; 98US-086023P.
PR 22-MAY-1998; 98US-086392P.
PR 22-MAY-1998; 98US-086486P.
PR 28-MAY-1998; 98US-087098P.
PR 28-MAY-1998; 98US-087208P.
PR 02-JUN-1998; 98US-087699P.
PR 02-JUN-1998; 98US-087759P.
PR 03-JUN-1998; 98US-087827P.
PR 04-JUN-1998; 98US-088025P.
PR 04-JUN-1998; 98US-088029P.
PR 04-JUN-1998; 98US-088033P.
PR 04-JUN-1998; 98US-088326P.
PR 05-JUN-1998; 98US-088167P.
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PR 05-JUN-1998; 98US-088212P.
PR 05-JUN-1998; 98US-088217P.
PR 09-JUN-1998; 98US-088655P.
PR 10-JUN-1998; 98US-088722P.
PR 10-JUN-1998; 98US-088738P.
PR 10-JUN-1998; 98US-088740P.
PR 10-JUN-1998; 98US-088811P.
PR 10-JUN-1998; 98US-088824P.
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PR 10-JUN-1998; 98US-088826P.
PR 11-JUN-1998; 98US-088861P.
PR 11-JUN-1998; 98US-088863P.
PR 11-JUN-1998; 98US-088875P.
PR 12-JUN-1998; 98US-089090P.
PR 12-JUN-1998; 98US-089103P.
PR 16-JUN-1998; 98US-089512P.
PR 16-JUN-1998; 98US-089514P.
PR 17-JUN-1998; 98US-089538P.
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PR 18-JUN-1998; 98US-089908P.
PR 19-JUN-1998; 98US-089952P.
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PR 22-JUN-1998; 98US-090252P.
PR 22-JUN-1998; 98US-090254P.
PR 24-JUN-1998; 98US-090429P.
PR 24-JUN-1998; 98US-090435P.
PR 24-JUN-1998; 98US-090444P.
PR 24-JUN-1998; 98US-090461P.
PR 24-JUN-1998; 98US-090535P.
PR 24-JUN-1998; 98US-090540P.
PR 25-JUN-1998; 98US-090676P.
PR 25-JUN-1998; 98US-090678P.
PR 25-JUN-1998; 98US-090688P.
PR 25-JUN-1998; 98US-090690P.
PR 25-JUN-1998; 98US-090694P.
PR 25-JUN-1998; 98US-090695P.
PR 25-JUN-1998; 98US-090696P.
PR 26-JUN-1998; 98US-090862P.
PR 26-JUN-1998; 98US-090863P.
PR 26-JUN-1998; 98US-091010P.
PR 26-JUN-1998; 98US-091015P.
PR 01-JUL-1998; 98US-091359P.
PR 01-JUL-1998; 98US-091544P.
PR 02-JUL-1998; 98US-091478P.
PR 02-JUL-1998; 98US-091486P.
PR 02-JUL-1998; 98US-091625P.
PR 02-JUL-1998; 98US-091628P.
PR 02-JUL-1998; 98US-091632P.
PR 02-JUL-1998; 98US-091636P.
PR 04-AUG-1998; 98US-095282P.
PR 04-AUG-1998; 98US-095288P.
PR 10-AUG-1998; 98US-096012P.
PR 10-AUG-1998; 98US-096012P.
PR 17-AUG-1998; 98US-096166P.
PR 17-AUG-1998; 98US-096667P.
PR 17-AUG-1998; 98US-096689P.
PR 17-AUG-1998; 98US-096891P.

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PR 17-AUG-1998; 98US-096897P.
PR 18-AUG-1998; 98US-096899P.
PR 18-AUG-1998; 98US-096899P.
PR 18-AUG-1998; 98US-097022P.
PR 26-AUG-1998; 98US-097952P.
PR 26-AUG-1998; 98US-097954P.
PR 26-AUG-1998; 98US-097955P.
PR 26-AUG-1998; 98US-097971P.
PR 26-AUG-1998; 98US-097974P.
PR 26-AUG-1998; 98US-098014P.
PR 01-SEP-1998; 98US-098716P.
PR 01-SEP-1998; 98US-098723P.
PR 02-SEP-1998; 98US-098803P.
PR 02-SEP-1998; 98US-098821P.
PR 02-SEP-1998; 98US-098843P.
PR 09-SEP-1998; 98US-099602P.
PR 10-SEP-1998; 98US-099741P.

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Query Match 28.0%; Score 352.5; DB 24; Length 280;  
 Best Local Similarity 29.1%; Pred. No. 2,3e-27;  
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

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QY 1 MODEGYITINIKTRKPAIV-----SVGPASSFWRRVMAILLILICVGMVGLVLSI 53
DB 11 MLDGDDDTMTSHSQASATRRPRPRTRPRAPSSTWRPVALLILICVILIGLALGL 70
QY 54 W-----SVQGRNY-----IDENENRTGTLOOLAKAFQCYVVKOSE 89
DB 71 LFFQYQLSVTGDPTISOMBERLGNSTCELOSLQVONIKLAGSLCHVAEKLC-----E 124
QY 90 LKGTFGKCKSPDITWRYYGDSCYGFFRHNTWBSKQYCTDMAATLLKIDRNIVELYI 149
DB 125 LYNKAGAHKRCSPCTEQKWHGDCNCOYFKKSKMECKYCLSENS-TMKINKQEDIEFA 184
QY 150 KARTH----LIRVVGSRQKSNFVKWEDSVISENPFZLEP--GKGNMCAVFNHGM 203
DB 185 ASQSYSEFFFSYWTGLLRPDSGXAMLMMDPTPTSELFIHIIIVTSRSDCVAILNGKI 244
QY 204 HPTFCENKHYLMCEKRCXGWTKYDQL 228
DB 245 FSKDCKALKRCVCERRAGVYKPSL 269

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RESULT 37  
 ABU66202  
 ID ABU66202 standard; Protein; 280 AA.

XX AC ABU66202;

DT 20-MAY-2003 (first entry)

DE Novel human secreted and transmembrane protein PRO113--.

XX Human; secreted protein; transmembrane protein; cytosolic;

KM gene therapy; TNF-Agonist-Alpha; chondrocyte stimulator; tumour;

KM adrenal tumour; lung tumour; colon tumour; breast tumour;

XX prostate tumour; rectal tumour; cervical tumour; liver tumour.

OS Homo sapiens.

XX US2003036157 A1.

PD 20-FEB-2003.

PF 02-JUL-2002; 2002US-0186769.

XX 16-SEP-1998; 98WO-US19330.

PR 07-OCT-1998; 98WO-US21141.

PR 01-DEC-1998; 98WO-US25108.

PR 08-MAR-1999; 99WO-US05028.

PR 14-MAY-1999; 99WO-US10733.

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PR 01-DEC-1999; 99WO-US2801.  
PR 02-DEC-1999; 99WO-US28551.  
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PR 22-FEB-2000; 2000WO-US04414.  
PR 24-FEB-2000; 2000WO-US05004.  
PR 01-MAR-2000; 2000WO-US05601.  
PR 02-MAR-2000; 2000WO-US05841.  
PR 15-MAR-2000; 2000WO-US06884.  
PR 30-MAR-2000; 2000WO-US09839.  
PR 17-MAY-2000; 2000WO-US13705.  
PR 22-MAY-2000; 2000WO-US14042.  
PR 30-MAY-2000; 2000WO-US14941.  
PR 02-JUN-2000; 2000WO-US15264.  
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PR 08-NOV-2000; 2000WO-US30952.  
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PR 20-DEC-2000; 2000WO-US34956.  
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PR 24-OCT-1997; 97US-063120P.  
PR 28-OCT-1997; 97US-063121P.  
PR 28-OCT-1997; 97US-063540P.  
PR 28-OCT-1997; 97US-063541P.  
PR 28-OCT-1997; 97US-063544P.  
PR 28-OCT-1997; 97US-063734P.  
PR 29-OCT-1997; 97US-063870P.  
PR 31-OCT-1997; 97US-064103P.  
PR 13-NOV-1997; 97US-065311P.  
PR 21-NOV-1997; 97US-066120P.  
PR 24-NOV-1997; 97US-066466P.  
PR 24-NOV-1997; 97US-066772P.  
PR 11-DEC-1997; 97US-069335P.  
PR 12-DEC-1997; 97US-069425P.  
PR 17-DEC-1997; 97US-069870P.  
PR 18-DEC-1997; 97US-068017P.  
PR 10-MAR-1998; 98US-077450P.  
PR 11-MAR-1998; 98US-077632P.  
PR 11-MAR-1998; 98US-077649P.  
PR 20-MAR-1998; 98US-078886P.  
PR 20-MAR-1998; 98US-078939P.  
PR 27-MAR-1998; 98US-079664P.  
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PR 31-MAR-1998; 98US-080194P.  
PR 01-APR-1998; 98US-080333P.  
PR 01-APR-1998; 98US-081049P.  
PR 08-APR-1998; 98US-081070P.  
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PR 15-APR-1998; 98US-082568P.  
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PR 21-APR-1998; 98US-082704P.  
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PR 04-JUN-1998; 98US-088025P.  
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PR 12-JUN-1998; 98US-089090P.  
PR 12-JUN-1998; 98US-089105P.  
PR 16-JUN-1998; 98US-089512P.  
PR 16-JUN-1998; 98US-089514P.  
PR 17-JUN-1998; 98US-089538P.  
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PR 18-JUN-1998; 98US-089908P.  
PR 19-JUN-1998; 98US-089952P.  
PR 22-JUN-1998; 98US-090246P.  
PR 22-JUN-1998; 98US-090252P.  
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PR 24-JUN-1998; 98US-090432P.  
PR 24-JUN-1998; 98US-090435P.  
PR 24-JUN-1998; 98US-090444P.  
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PR 01-JUL-1998; 98US-091359P.  
PR 01-JUL-1998; 98US-091544P.  
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PR 10-AUG-1998; 98US-096012P.  
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PR 17-AUG-1998; 98US-096897P.  
PR 18-AUG-1998; 98US-096949P.  
PR 18-AUG-1998; 98US-096952P.  
PR 18-AUG-1998; 98US-097022P.  
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PR 26-AUG-1998; 98US-097954P.  
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PR 26-AUG-1998; 98US-097971P.  
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PR 10-SEP-1998; 98US-099741P.  
PR 10-SEP-1998; 98US-099754P.  
PR 10-SEP-1998; 98US-099763P.
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Query Match 28.0%; Score 352.5; DB 24; Length 280;  
Best Local Similarity 29.1%; Pred. No. 2,3e-27;  
Matches 77; Conservative 53; Mismatches 92; Intels 43; Gaps 6;

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QY 1 MODEDGYITNIRKREKALV-----SVGRASSFWRWVALILITCGWVGLVAGI 53  
DB 11 MLDGDTTSLHSAATRRHPPRRKTERHAPRPAITLITLCLVILIGLALSL 70  
QY 54 W-----SVQGRNY-----LDENENRGTGLQQLAKEFCQYVWQSE 89  
DB 71 LFPQYQLSMTGCTISQWBERLGNTSQEQSLQVQNKLAGSLQVHAKLCR-----E 124  
QY 90 LKGFPGKHKSPTCTNRYRYGDSCTGFFRHLITWESKQCTDMNALLKIDNNIYEYI 149  
DB 125 LYNKAGARSPCTEQWKGHDNICYQFYKDSKSWEDCKYFCLSENSITLKNQEDLEFA 184  
QY 150 KARTH---LIRWGLRQKSNBYWKMEDGVSINNFEELED--GKNNMCAYFHHGKM 203  
DB 185 ASQYSSEPFYSYTGILRPDSGKALMMDGTPFTSELPHIIDIYTSRSDCAIANGMI 244  
QY 204 HPTFCENKHYLMCEKKAQMTKVDQI 228  
DB 245 FSKDCKELKRCVCERRAGWVPEEL 269
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RESULT 38  
ABU66798  
ID ABU66798 standard; Protein; 280 AA.

XX AC ABU66798;

XX DT 23-MAY-2003 (First entry)  
XX DE Human PRO polypeptide #229.

XX KW Human: PRO polypeptide; secreted and transmembrane protein;  
tumour necrosis factor-alpha; TNF-alpha blood proliferation;  
differentiation; chondrocyte; tumour; genetic disorder;  
cytoskeletal.

XX OS Homo sapiens.

XX PN US2003036180-A1.

XX PD 20-FEB-2003.

XX

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PF 09-MAY-2002; 2002US-0143114.  
XX 31-MAR-1997; 97WO-US05230.  
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PR 02-DEC-1999; 99WO-US28651.  
PR 02-DEC-1999; 99WO-US28654.  
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PR 16-DEC-1999; 99WO-US30095.  
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PR 20-DEC-1999; 99WO-US30999.  
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PR 30-DEC-1999; 99WO-US31274.  
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PR 01-MAR-2000; 2000WO-US05601.  
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PR 02-DEC-1999; 99WO-US28554.
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PR 18-FEB-2000; 2000WO-US04342.
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PR 16-AUG-2001; 2001US-0931836.
PR 19-DEC-2001; 2001US-0028072.

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(GETH ) GENENTECH INC.

XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;

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PI Geritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watarabe CX, Wood WI, Zhang Z;
XX WPI; 2003-331925/31.
DR N-PSDB; AQA04252.
XX
XX New secreted and transmembrane nucleic acids and polypeptides,
PT designated as PRO, useful for treating inflammation, organ failure,
PT atherosclerosis, cardiac injury, infertility, birth defects, premature
PT aging, AIDS, or cancer
XX
XX Claim 12; Fig 458; 659pp; English.
XX
XX The invention relates to an isolated nucleic acid comprising, or which is
CC at least 80% identical to, or the full-length coding sequence of, any of
CC the 275 nucleotide sequences, encoding the corresponding PRO polypeptide
CC (one of 275 secreted or transmembrane proteins). The nucleic acid
CC further comprises the full-length coding sequence of the DNA deposited
CC under American Type Culture Collection (ATCC) accession number in a list
CC given in the specification. Also included are vectors and host
CC cells for producing PRO proteins, PRO fusion proteins, anti-PRO
CC antibodies, PRO extracellular domains and mature sequences, methods
CC of detecting PRO proteins, methods for stimulating the release of
CC (TNF-alpha (tumour necrosis factor alpha) from human blood,
CC (and the proliferation of differentiation of chondrocyte cells, the
CC proliferation of, or gene expression in pericyte cells, the release or
CC proteoglycans from cartilage, proliferation of inner ear utricular
CC supporting cells, the proliferation of T-lymphocyte cells, the release
CC of cytokine from peripheral blood mononuclear cells (PBMC), or the
CC proliferation of endothelial cells), a method for modulating the uptake
CC of glucose or free fatty acid (FFA) by skeletal muscle cells,
CC a method for inhibiting the binding of A-peptide to factor VIIa,
CC or the differentiation of adipocyte cells, a method for detecting the
CC presence of a tumour in a mammal and an oligonucleotide probe derived
CC from any of the nucleotide sequences cited above. The nucleic acids and
CC polypeptides are useful for treating inflammatory diseases, organ
CC failure, atherosclerosis, cardiac injury, infertility, birth defects,
CC premature aging, AIDS (acquired immunodeficiency syndrome), cancer, or
CC diabetic complications. The nucleic acids are useful as hybridisation
CC probes, in chromosome and gene mapping, and in generating antisense RNA
CC or DNA. The polypeptides are useful as pharmaceuticals, diagnostics,
CC biosensors or bioreactors. Both are useful in tissue typing.
XX The present sequence represents a PRO protein of the invention.
XX
XX Sequence 280 AA;
SQ
Query Match 28.0%; Score 352.5; DB 24; Length 280;
Best Local Similarity 29.1%; Pred. No.2.3e-27;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;
QY 1 MODEGYTTNIRKXPALV-----SVGPASSEFWRVALLILLICVGVVGLVALGI 53
DB 11 MDDDDGDTMSLHQAASATTRHPRETRHAPSTWRPALTLTLTGLVILLGLALGL 70
QY 54 W-----SVGQANY-----LDENBNRTGTQQAKRFQYVVKOSE 89
DB 71 LPFYOHSTNGQDTISQMERLANTQSLOLVQYNIKLASLQVHAEKLCR-----Z 124
QY 90 LKGTFGKQSPQDNNRYGDCVGFPRHLLTWESRQYQTDWNNATLTKIDNNIYEXI 149
DB 125 LYNKAGARCSPTQVQWHDNCYQFYKDSKSWEDCYFGLSENSTMLKINKGQDLEFA 184
QY 150 KARTH---LIRWGLSRQKSNVWKEGDSVLENMFPLED--GKNNNCAYFHNKM 203
DB 185 ASQSYSEFFYSYMTGLRPDSGKXMMIMDDGFPFSELPHITIDYSPRSQCVAILNMI 244
QY 204 HPTFCENKHYIMCERKACNTVVDQI 228
DB 245 FSKDCKELKRCVCERRAGVYKPESL 269

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RESULT 40  
ABU67706

ID AB067706 standard; Protein; 280 AA.  
 XX AC AB067706;  
 XX DT 29-MAY-2003 (first entry)  
 XX DE Human secreted/transmembrane protein (PRO) #301.  
 XX KW Human; secreted and transmembrane protein; PRO; TNF-alpha;  
 KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;  
 XX tissue typing.  
 XX OS Homo sapiens.  
 XX PN US2003036162-A1.  
 XX PD 20-FEB-2003.  
 XX 12-JUL-2002; 2002US-0194423.  
 XX 16-SEP-1998; 98WO-US19330.  
 PR 07-OCT-1998; 98WO-US21141.  
 PR 01-DEC-1998; 98WO-US25108.  
 PR 08-MAR-1999; 99WO-US05028.  
 PR 14-MAY-1999; 99WO-US10732.  
 PR 02-JUN-1999; 99WO-US12252.  
 PR 01-SEP-1999; 99WO-US20111.  
 PR 15-SEP-1999; 99WO-US21090.  
 PR 01-DEC-1999; 99WO-US28301.  
 PR 02-DEC-1999; 99WO-US28551.  
 PR 30-DEC-1999; 99WO-US31274.  
 PR 05-JAN-2000; 2000WO-US00219.  
 PR 18-FEB-2000; 2000WO-US04341.  
 PR 18-FEB-2000; 2000WO-US04342.  
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 PR 24-FEB-2000; 2000WO-US05004.  
 PR 01-MAR-2000; 2000WO-US05601.  
 PR 02-MAR-2000; 2000WO-US05841.  
 PR 15-MAR-2000; 2000WO-US06884.  
 PR 30-MAR-2000; 2000WO-US08439.  
 PR 17-MAY-2000; 2000WO-US13709.  
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 PR 30-MAY-2000; 2000WO-US15264.  
 PR 02-JUN-2000; 2000WO-US15264.  
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 PR 24-AUG-2000; 2000WO-US23328.  
 PR 08-NOV-2000; 2000WO-US30952.  
 PR 01-DEC-2000; 2000WO-US32679.  
 PR 20-DEC-2000; 2000WO-US34955.  
 PR 28-FEB-2001; 2001WO-US06520.  
 PR 01-JUN-2001; 2001WO-US17800.  
 PR 20-JUN-2001; 2001WO-US19692.  
 PR 29-JUN-2001; 2001WO-US21066.  
 PR 09-JUL-2001; 2001WO-US21735.  
 PR 29-AUG-2001; 2001WO-US27099.  
 PR 26-JUN-1998; 98US-0105413.  
 PR 07-OCT-1998; 98US-0168978.  
 PR 06-NOV-1998; 98US-0187368.  
 PR 07-DEC-1998; 98US-0202054.  
 PR 03-MAR-1999; 99US-0254311.  
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 PR 14-MAY-1999; 99US-0380137.  
 PR 25-AUG-1999; 99US-0380138.  
 PR 25-AUG-1999; 99US-0380139.  
 PR 25-AUG-1999; 99US-0380142.  
 PR 18-OCT-1999; 99US-0403297.  
 PR 12-NOV-1999; 99US-0423844.  
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 PR 22-MAR-2001; 2001US-0816744.

PR 10-MAY-2001; 2001US-0854208.  
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 PR 05-JUN-2001; 2001US-0874503.  
 PR 18-JUL-2001; 2001US-0908827.  
 PR 30-JUL-2001; 2001US-0918585.  
 PR 06-AUG-2001; 2001US-0924419.  
 PR 13-AUG-2001; 2001US-0925404.  
 PR 16-AUG-2001; 2001US-0931836.  
 PR 28-AUG-2001; 2001US-0941992.  
 PR 04-SEP-2001; 2001US-0946374.  
 PR 15-JAN-2002; 2002US-0052586.  
 XX (GENTH ) GENENTECH INC.  
 XX 2A Baker KP, Chen J, Desnoyers L, Goddard A, Godowski P, Gurney AL;  
 XX PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;  
 XX PI WPI; 2003-332039/31.  
 XX DR N-PSDB; ACAA06000.  
 XX PT New secreted and transmembrane PRO polypeptides and nucleic acids,  
 PT useful in gene therapy, in chromosome and gene mapping, as chromosome  
 PT markers, in tissue typing, and in chromosome identification  
 XX PS Claim 11, Fig 602; 706pp; English.  
 XX CC The invention discloses human nucleic acids encoding secreted and  
 CC transmembrane (PRO) polypeptides. Also disclosed is an antibody that  
 CC specifically binds to the PRO polypeptide, a method for stimulating the  
 CC release of tumour necrosis factor alpha (TNF-alpha) from human blood by  
 CC contacting the blood a PRO polypeptide, a method for stimulating the  
 CC proliferation or differentiation of chondrocyte cells by contacting the  
 CC cells with a PRO polypeptide, a method for detecting the presence of the  
 CC tumour in a mammal and an oligonucleotide probe derived from any of the  
 CC PRO nucleotide sequences. The nucleotide sequences are useful as probes,  
 CC in chromosome and gene mapping, in generating antisense RNA and DNA, in  
 CC preparing PRO polypeptides by recombinant techniques and in gene therapy  
 CC (e.g. for replacement of defective gene). The PRO polypeptides are useful  
 CC as molecular weight markers for protein electrophoresis purposes, for  
 CC chromosome identification, as chromosome markers, as therapeutic agents,  
 CC for stimulating the release of TNF-alpha from human blood, for  
 CC stimulating the proliferation or differentiation of chondrocytes and  
 CC detecting the presence of a tumour. The PRO polypeptides and nucleic  
 CC acids may also be used diagnostically for tissue typing. The sequences  
 CC presented in AB067406-AB067710 are the PRO polypeptides of the invention.  
 XX SQ Sequence 280 AA;  
 Query Match 28.0%; Score 352.5; DB 24; Length 280;  
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;  
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;  
 QY 1 M0DEDTITNTIKTKRPALV-----SVGRASSFWRMVLLILLCVGVVGLGI 53  
 DB 11 MLDDEGDTWLSHQAATTRHPRPSTWPEVLLTLTLVLTLVLAAGL 70  
 QY 54 W-----SYMGRNY-----LDENENRFTGLQOLAKRQYVVKSE 89  
 DB 71 LFFOYQLSTNGQDTISMERLNTSLOELQYQVNIKLAGSLQHVAKLUR-----E 124  
 QY 90 LKGTFFKHKSGPCDTNWRYYGDSYGFPRNLTWESKQYCTDMNATILKIDNRIVYI 149  
 DB 125 LYNKAGAHRCSPTEQWKGHDNCGYFKDKSWEDCKYFCLSENSIMLKINKQEDLEFA 184  
 QY 150 KARTH-----LIRVGLSPQKNENWYKMDGVSISNMFPLED--GKNMNCAYPHNGM 203  
 DB 185 ASQSYSEPFYWTLLRPDSGKALWMDGTPFTSELHIIIDVYSPSRQCVALLNMI 244  
 QY 204 HPTFCNKYLVNCEKAGMTYVDL 228  
 DB 245 PSKDKELKRCVCEHRAQWVKEFL 269

RESULT 41  
ID ABUS9879 standard; Protein; 280 AA.  
XX  
AC ABUS9879;  
XX  
DT 13-MAY-2003 (first entry)  
XX  
DE Novel secreted and transmembrane protein PRO1131.  
XX  
KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;  
KW Cardiac insufficiency disorder; cancer; tumour; immune response;  
KW adrenal cortical capillary endothelial growth; c-fos induction;  
KW vascular endothelial growth factor inhibition; VEGF inhibition;  
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;  
KW retinal neurons cell survival; rod photoreceptor cell survival;  
KW retinal disorder; retinitis pigmentosa; kidney disorder;  
KW mammalian kidney mesangial cell proliferation; Berger disease;  
KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;  
KW chondrocyte redifferentiation; sports injury; arthritis.  
XX  
OS Homo sapiens.  
XX  
PN US2003017563-A1.  
XX  
PD 23-JAN-2003.  
XX  
PF 07-MAY-2002; 2002US-0140808.  
XX  
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PR 12-JUN-1998; 98WO-US12456.  
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PR 14-SEP-1998; 98WO-US19177.  
PR 16-SEP-1998; 98WO-US19330.  
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PR 07-OCT-1998; 98WO-US21141.  
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PR 14-MAY-1999; 99WO-US10733.  
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PR 30-NOV-1999; 99WO-US28409.  
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PR 01-DEC-1999; 99WO-US28634.  
PR 02-DEC-1999; 99WO-US28551.  
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PR 20-DEC-1999; 99WO-US30999.  
PR 22-DEC-1999; 99WO-US30720.  
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PR 06-JAN-2000; 2000WO-US00376.  
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PR 18-FEB-2000; 2000WO-US04342.  
PR 22-FEB-2000; 2000WO-US04414.  
PR 24-FEB-2000; 2000WO-US04914.  
PR 24-FEB-2000; 2000WO-US05004.  
PR 01-MAR-2000; 2000WO-US05601.  
PR 02-MAR-2000; 2000WO-US05746.  
PR 02-MAR-2000; 2000WO-US05841.  
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PR 20-MAR-2000; 2000WO-US07377.  
PR 21-MAR-2000; 2000WO-US07532.  
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PR 30-MAY-2000; 2000WO-US14941.  
PR 02-JUN-2000; 2000WO-US15264.  
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PR 11-AUG-2000; 2000WO-US22031.  
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PR 24-AUG-2000; 2000WO-US23328.  
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PR 10-NOV-2000; 2000WO-US30873.  
PR 01-DEC-2000; 2000WO-US32678.  
PR 20-DEC-2000; 2000WO-US34956.  
PR 28-FEB-2001; 2001WO-US06520.  
PR 01-MAR-2001; 2001WO-US06666.  
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PR 01-JUN-2001; 2001WO-US17800.  
PR 20-JUN-2001; 2001WO-US19692.  
PR 22-JUN-2001; 2001WO-US20116.  
PR 29-JUN-2001; 2001WO-US21066.  
PR 09-JUL-2001; 2001WO-US21735.  
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PR 03-MAR-2001; 2001US-C802706.  
PR 14-MAR-2001; 2001US-C808689.  
PR 22-MAR-2001; 2001US-C816744.  
PR 03-APR-2001; 2001US-C828366.  
PR 10-MAY-2001; 2001US-C854208.  
PR 18-MAY-2001; 2001US-C860216.  
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PR 14-JUN-2001; 2001US-C874503.  
PR 19-JUN-2001; 2001US-C882636.  
PR 21-JUN-2001; 2001US-C886342.  
PR 15-JUL-2001; 2001US-C887879.  
PR 06-AUG-2001; 2001US-C924419.  
PR 09-AUG-2001; 2001US-C927796.  
PR 16-AUG-2001; 2001US-C931836.  
PR 19-DEC-2001; 2001US-0028072.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
XX Baker KP, Beresini M, Deforge L, Desnoyers L, Flivarov E, Gao W;  
XX Gerlisen ME, Goddard A, Godowski PU, Garney AL, Sherwood S;  
XX Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
XX  
XX WPI; 2003-14836/14.  
XX N-PSDB; AEX89369.  
XX  
XX Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346  
XX and PRO1375, which stimulate proliferation of stimulated T-lymphocytes  
XX are therapeutically useful for enhancing immune response and in cancer  
XX treatments -  
XX  
XX Claim 12; Fig 45b; 659pp; English.  
XX

CC The invention describes an isolated human PRO polypeptide. The PRO  
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in  
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and  
 CC in modulating at least one biological activity of a cell expressing a PRO  
 CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus  
 CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186  
 CC stimulate adrenal cortical capillary endothelial growth, and PRO536,  
 CC PRO943, PRO828, PRO1068 or PRO535, PRO826, PRO819, PRO1126,  
 CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus  
 CC useful for treating conditions or disorders where angiogenesis would be  
 CC beneficial, e.g. wound healing and angiogenesis of this polypeptide are  
 CC useful for treating cancers tumours. PRO817 inhibits vascular  
 CC endothelial growth factor (VEGF) stimulated proliferation of endothelial  
 CC cells and is thus useful for inhibiting endothelial cell growth in  
 CC mammals which would be beneficial in inhibiting tumour growth. PRO826,  
 CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of  
 CC stimulated T-lymphocytes and are therapeutically useful for enhancing  
 CC immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of  
 CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of  
 CC rod photoreceptor cells) and therefore are useful for treating retinal  
 CC disorders of injuries, e.g. retinitis pigmentosum, AMD. PRO819, PRO813  
 CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,  
 CC and therefore are useful for treating kidney disorders associated with  
 CC decreased mesangial cell function such as Berger disease or Crohn's  
 CC nephropathies associated with dermatitis, herpeticiformis or Crohn's  
 CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the  
 CC proliferation and/or redifferentiation of chondrocytes in culture and  
 CC are thus useful for treating sports injuries, and arthritis. This  
 CC is the amino acid sequence of a novel human PRO protein.

XX Sequence 280 AA;

Query Match 28.0%; Score 352.5; DB 24; Length 280;  
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;  
 Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MODEDGTITNITKRRALV-----SVGPASFFWNRWALLILLCYGVVGVVGLGI 53  
 DB 11 MLDDGDTWLSHQASATRRHPRTREHAPSTGRPAVALTLILGLVLLGLALSL 70  
 QY 54 W-----SVGNRY-----LDENENRTGLLOQLAKRFCCQVYVYKSE 89  
 DB 71 LFFPYQLSNTGDDTISQMEHRLNLTSEQLQVQIKLAGSIQVHAKLCR-----E 124  
 QY 90 LKGTFGKHKCSPCDTNRYVYDSCYGFPRNLTWBESKQYCTDNATLLKIDNRIVEYI 149  
 DB 125 LYNVAGAHRCSPCTEQWKMHDNCGYFYXSKSWEDCKYFCLSENSTMLKLNQEDLEFA 184  
 QY 150 KAPTH---LIRWGLSQRKSNENYWKWEDGSVISNNMFLED--GKNNMCAYFHNKGM 203  
 DB 185 ASQSYSEFFYSYVWGLLRPDSGKAWLWDGFTSELPHITLTVSPRSRDCVALNGMI 244  
 QY 204 HPTCEENKHYLMCEKXAGMTKYDOL 228  
 DB 245 PSKCKELKRCVCERRRAGNVKPESTL 269

RESULT 42

ABU65564

ID ABU65564 standard; Protein; 280 AA.

XX ABU65564;

DT 16-MAY-2003 (first entry)

DE Human PRO polypeptide #301.

XX Human, PRO, cytosolic; chromosome mapping; gene mapping;

KW protein electrophoresis; tumour necrosis factor alpha; TNF-alpha; blood;

XX chondrocyte differentiation; chondrocyte proliferation; tumour.

OS Homo sapiens.

XX

PN US2003032102-A1.  
 XX 13-FEB-2003.  
 PD 17-JUN-2002; 2002US-0173697.  
 XX 16-SEP-1998; 98WO-US19330.  
 XX 07-OCT-1998; 98WO-US21141.  
 XX 01-DEC-1998; 98WO-US22108.  
 XX 08-MAR-1999; 99WO-US05028.  
 XX 14-MAY-1999; 99WO-US10733.  
 XX 02-JUN-1999; 99WO-US12252.  
 XX 01-SEP-1999; 99WO-US20111.  
 XX 15-SEP-1999; 99WO-US21090.  
 XX 01-DEC-1999; 99WO-US28301.  
 XX 02-DEC-1999; 99WO-US28551.  
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 XX 05-JAN-2000; 2000WO-US00219.  
 XX 18-FEB-2000; 2000WO-US04342.  
 XX 22-FEB-2000; 2000WO-US04414.  
 XX 24-FEB-2000; 2000WO-US05004.  
 XX 01-MAR-2000; 2000WO-US05601.  
 XX 02-MAR-2000; 2000WO-US05841.  
 XX 15-MAR-2000; 2000WO-US06884.  
 XX 30-MAR-2000; 2000WO-US08439.  
 XX 17-MAY-2000; 2000WO-US13705.  
 XX 22-MAY-2000; 2000WO-US14042.  
 XX 30-MAY-2000; 2000WO-US14941.  
 XX 02-JUN-2000; 2000WO-US15264.  
 XX 28-JUL-2000; 2000WO-US20710.  
 XX 24-AUG-2000; 2000WO-US23328.  
 XX 08-NOV-2000; 2000WO-US30952.  
 XX 01-DEC-2000; 2000WO-US32578.  
 XX 20-DEC-2000; 2000WO-US34556.  
 XX 28-FEB-2001; 2001WO-US06520.  
 XX 01-JUN-2001; 2001WO-US17800.  
 XX 20-JUN-2001; 2001WO-US19692.  
 XX 28-JUN-2001; 2001WO-US21066.  
 XX 09-JUL-2001; 2001WO-US21735.  
 XX 23-AUG-2001; 2001WO-US27099.  
 XX 18-SEP-1997; 97US-US92639.  
 XX 18-SEP-1997; 97US-US92659.  
 XX 17-OCT-1997; 97US-US92250P.  
 XX 21-OCT-1997; 97US-US93486P.  
 XX 24-OCT-1997; 97US-US93120P.  
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 XX 17-DEC-1997; 97US-US94870P.  
 XX 18-DEC-1997; 97US-US96817P.  
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 XX 27-MAR-1998; 98US-US07978P.  
 XX 31-MAR-1998; 98US-US08010P.  
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 XX 01-APR-1998; 98US-US08327P.  
 XX 01-APR-1998; 98US-US08333P.

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PR 18-MAY-1998; 98US-086023P.
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PR 03-JUN-1998; 98US-087827P.
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PR 02-SEP-1998; 98US-098821P.
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PR 09-SEP-1998; 98US-099602P.
PR 10-SEP-1998; 98US-099741P.
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PR 10-SEP-1998; 98US-099763P.
PR 10-SEP-1998; 98US-099812P.

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Query Match 28.0%; Score 352.5; DB 24; Length 280;  
 Best Local Similarity 29.1%; Pred. No. 2.3e-27;  
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QY 90 LKGTFFKHKSPCDTNWRYVYDSCYGFPHNLTWESKOYCTDNATLLKIDNIVEXI 149
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RESULT 43  
 ABUS9144  
 ID ABUS9144 standard; Protein; 280 AA.  
 XX AC ABUS9144;  
 XX DT 28-APR-2003 (first entry)



XX DE Novel human secreted or transmembrane protein PRO1131.  
 XX XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;  
 KW cardiac insufficiency disorder; cancer; tumor; immune response;  
 KW adrenal cortical capillary endothelial growth; c-fos induction;  
 KW vascular endothelial growth factor inhibition; VEGF inhibitor;  
 KW endothelial cell growth inhibitor; T-lymphocytes stimulation;  
 KW retinal neurons cell survival; rod photoreceptor cell survival;  
 KW retinal disorder; retinitis pigmentosa; kidney disease;  
 KW mammalian kidney mesangial cell proliferation; Berger disease;  
 KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;  
 KW chondrocyte redifferentiation; sports injury; arthritis.  
 XX OS Homo sapiens.  
 XX PN US2002132252-A1.  
 XX PD 19-SEP-2002.  
 XX PF 14-NOV-2001; 2001US-0990442.  
 XX XX 05-NOV-1997; 97WO-US20069.  
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 PR 17-SEP-1998; 98WO-US19437.  
 PR 07-OCT-1998; 98WO-US21141.  
 PR 01-DEC-1998; 98WO-US25108.  
 PR 05-JAN-1999; 99WO-US00106.  
 PR 08-MAR-1999; 99WO-US05028.  
 PR 02-JUN-1999; 99WO-US12252.  
 PR 15-SEP-1999; 99WO-US21090.  
 PR 15-SEP-1999; 99WO-US21547.  
 PR 30-NOV-1999; 99WO-US28313.  
 PR 01-DEC-1999; 99WO-US28301.  
 PR 16-DEC-1999; 99WO-US30095.  
 PR 20-DEC-1999; 99WO-US30911.  
 PR 06-JAN-2000; 2000WO-US00219.  
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 PR 11-FEB-2000; 2000WO-US03565.  
 PR 18-FEB-2000; 2000WO-US04341.  
 PR 22-FEB-2000; 2000WO-US04414.  
 PR 24-FEB-2000; 2000WO-US04914.  
 PR 02-MAR-2000; 2000WO-US05004.  
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 PR 20-MAR-2000; 2000WO-US07377.  
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 PR 30-MAY-2000; 2000WO-US14941.  
 PR 02-JUN-2000; 2000WO-US15264.  
 PR 28-JUN-2000; 2000WO-US20710.  
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 PR 23-AUG-2000; 2000WO-US23522.  
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 PR 08-NOV-2000; 2000WO-US30952.  
 PR 01-DEC-2000; 2000WO-US32678.  
 PR 28-FEB-2001; 2001WO-US06520.  
 PR 01-JUN-2001; 2001WO-US17800.  
 PR 20-JUN-2001; 2001WO-US19692.  
 PR 29-JUN-2001; 2001WO-US21066.  
 PR 09-JUL-2001; 2001WO-US21735.  
 PR 16-JUN-1997; 97US-049787P.  
 PR 17-OCT-1997; 97US-062250P.  
 PR 12-NOV-1997; 97US-065186P.  
 PR 13-NOV-1997; 97US-065311P.  
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 PR 25-FEB-1998; 98US-073945P.  
 PR 20-MAR-1998; 98US-078910P.  
 PR 28-APR-1998; 98US-083332P.

PR 07-MAY-1998; 98US-084600P.  
 PR 28-MAY-1998; 98US-087106P.  
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 PR 10-JUN-1998; 98US-088734P.  
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 PR 18-JUN-1998; 98US-089801P.  
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 PR 18-JUN-1998; 98US-089908P.  
 PR 28-AUG-2001; 2001US-0941992.  
 XX (GENTH ) GENENTECH INC.  
 PA Ashtkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
 XX Ferrara N, Fong S, Gerber H, Gerltsen XB, Goddard A, Godowski PJ;  
 PI Grimaldi JC, Gurney AL, Kijavini JJ, Napier MA, Pan C, Paoni NF;  
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams FM, Wood WI,  
 PI Zhang Z;  
 XX WPI: 2003-247083/24.  
 DR N-PSDB, ABX80325.  
 DR XX  
 XX Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346  
 PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes  
 PT are therapeutically useful for enhancing immune response and in cancer  
 PT treatments -  
 XX Claim 12, Fig 230; 648pp; English.  
 ES  
 XX The invention describes an isolated human PRO polypeptide. The PRO  
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in  
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and  
 CC in modulating at least one biological activity of a cell expressing a PRO  
 CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus  
 CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186  
 CC stimulate adrenal cortical capillary endothelial growth and PRO536,  
 CC PRO4360 and PRO1387 induce c-fos in endothelial cells, and are thus  
 CC useful for treating conditions or disorders where angiogenesis would be  
 CC beneficial, e.g. wound healing and antagonist of this polypeptide are  
 CC useful for treating cancerous tumours. PRO312 inhibits vascular

CC endothelial growth factor (VEGF) stimulated proliferation of endothelial  
CC cells and is thus useful for inhibiting endothelial cell growth in  
CC mammals which would be beneficial in inhibiting tumor growth. PRO826,  
CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of  
CC stimulated T-lymphocytes and are therapeutically useful for enhancing  
CC immune response. PRO828, PRO826, PRO1068 or PRO1372 enhance survival of  
CC retinal neurons cells (PRO112 is also enhances survival/proliferation of  
CC rod photoreceptor cells) and therefore are useful for treating retinal  
CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813  
CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,  
CC and therefore are useful for treating kidney disorders associated with  
CC decreased mesangial cell function such as Berger disease or other  
CC nephropathies associated with dermatitis, herpeticiformis or Crohn's  
CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the  
CC proliferation and/or redifferentiation of chondrocytes in culture and  
CC are thus useful for treating sports injuries, and arthritis. This  
CC is the amino acid sequence of a novel human PRO protein.

XX Sequence 280 AA;

Query Match 28.0%, Score 352.5; DB: 24; Length 280;  
Best Local Similarity 29.1%, Pred. No. 2.3e-27;  
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MDDSDGYITLNTKTRKPLV-----SVGPASSFWRRVMAILLILICGVNVAALGI 53  
DB 11 MLDSDGDTWLSHSQASATTHPRPRRTERRAPSTWRPVALLITLCLVLLITGLAIGL 70  
QY 54 W-----SYMQRNY-----LQDENENRTGLQQLAKRFQYVYVQSE 89  
DB 71 LFFQYQULSTNGQPTISGMERLIGNTSGELSLQVQNKLAGSLQHVAEKLCR-----F 124  
QY 90 LKGTFFKHKSGPCPTDMRRYRDSCYGRFRNLTWESQYCTDMATLTKLDENLIVYI 149  
DB 125 LYNAGARHCSPCTEOWTGHGDCYQFYKDSKSWEDCKYFCLSENSTMLKINKQEDLEFA 134  
QY 150 KARTH---LIRWGLSRQKSNBWKWEDGAVISNNMFEFED--GKGNMCAVFNHNGM 203  
DB 185 ASQSTSEFFYSIGWTGLRPPDSGKAWLMDGTFTFISLTHIILLVSPRSRCVALINMTI 244  
QY 204 HPTFCENKHYLMCEKAKMTKVDQL 228  
DB 245 FSKDCKELKRCVCERRAGVWVZESL 269

## RESULT 44

ABUS9291

ID ABUS9291 standard; Protein; 280 AA.

XX AC ABUS9291;

XX DT 22-APR-2003 (first entry)

XX XX Human secreted/transmembrane protein, #112.

XX KW Human; PRO; secreted; transmembrane; pharmaceutical;  
XX KW diagnostic; biosensor; bioreactor; tumour; therapeutic;  
XX KW gene therapy; tumour-associated antigenic target; TAT; ADAPT;  
XX KW antibody-dependent enzyme mediated produg therapy; cytostatic.

XX OS Homo sapiens.

XX PN US2003027162-A1.

XX PD 06-FEB-2003.

XX PZ 15-NOV-2001; 2001US-0997428.

XX PR 05-NOV-1997; 97WO-US20069.

XX PR 16-SEP-1998; 98WO-US19930.

XX PR 17-SEP-1998; 98WO-US19437.

XX PR 07-OCT-1998; 98WO-US21141.

XX PR 01-DEC-1998; 98WO-US25108.

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PR 05-JAN-2000; 2000WO-US00219.  
PR 06-JAN-2000; 2000WO-US00376.  
PR 11-FEB-2000; 2000WO-US03565.  
PR 18-FEB-2000; 2000WO-US04341.  
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PR 17-MAY-2000; 2000WO-US13705.  
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PR 28-JUL-2000; 2000WO-US20710.  
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PR 28-FEB-2001; 2001WO-US06520.  
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PR 16-SEP-1998; 98US-100634P.
PR 17-SEP-1998; 98US-100858P.
PR 22-DEC-1998; 98US-113295P.
PR 12-MAR-1999; 98US-123957P.
PR 23-JUN-1999; 99US-141037P.

Query Match 28.0%; Score 352.5; DB 24; Length 280;
Best Local Similarity 29.1%; Pred. No. 2,3e-27;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MODEGYITLNKTRKPAIV-----SVEPASSFWRRVVALILILICVGNVGLVAGI 53
DB 11 MLDGDDGTWISIHQASATRRPERRRHRAPASTWRPVALITLTLGLVLIIDIALGL 70
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DB 71 LFFQYQLNSTGDTISQMERIGNTSQELOSLOVQNTKAGSIQHVAKLCR-----S 124
QY 90 LKGFPGHKSPCDTNRRYVDSCYGFPRHNLTWESKQVCTDMNATLTKIDNNIVFYI 149
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QY 150 KARTH---LIRVGLSRQSNVEVKKWEDGVISENNFZLEP--GKNMNCAPFHNGM 203
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QY 204 HPTFCENKHYLMCEKRGKMTVDOL 228
DB 245 FSKDCKELKRCVCERRAGNVAPBSL 269

RESULT 45
ABUS9440
ID ABUS9440 standard; Protein; 280 AA.
XX
AC ABUS9440;
XX
DT 22-APR-2003 (first entry)
XX
DE Novel human secreted or transmembrane protein PRO1281.
XX
XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
XX cardiac insufficiency disorder; cancer; tumour; immune response;
XX adrenal cortical capillary endothelial growth; c-fos induction;
XX vascular endothelial growth factor inhibition; VEGF inhibition;
XX endothelial cell growth inhibitor; T-lymphocytes stimulation;
XX retinal neurons cell survival; rod photoreceptor cell survival;
XX retinal disorder; retinitis pigmentosa; kidney disease;
XX mammalian kidney mesangial cell proliferation; Berger disease;
XX dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;

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KM chondrocyte redifferentiation; sports injury; arthritis.  
XX  
OS Homo sapiens.  
XX US2003027985-A1.  
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PD 06-FEB-2003.  
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PF 14-NOV-2001; 2001US-0990562.  
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PR 05-NOV-1997; 97WO-US20069.  
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PR 08-MAR-1999; 99WO-US05028.  
PR 02-JUN-1999; 99WO-US12252.  
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PR 05-JAN-2000; 2000WO-US00219.  
PR 06-JAN-2000; 2000WO-US00376.  
PR 11-FEB-2000; 2000WO-US03565.  
PR 18-FEB-2000; 2000WO-US04341.  
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PR 24-FEB-2000; 2000WO-US04914.  
PR 24-FEB-2000; 2000WO-US05004.  
PR 02-MAR-2000; 2000WO-US05941.  
PR 10-MAR-2000; 2000WO-US06319.  
PR 15-MAR-2000; 2000WO-US06884.  
PR 20-MAR-2000; 2000WO-US07437.  
PR 30-MAR-2000; 2000WO-US08439.  
PR 15-MAY-2000; 2000WO-US13358.  
PR 17-MAY-2000; 2000WO-US13705.  
PR 22-MAY-2000; 2000WO-US14042.  
PR 30-MAY-2000; 2000WO-US14941.  
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Query Match 28.0%; Score 352.5; DB 24; Length 280;

Best Local Similarity 29.1%; Pred. No. 2.3e-27; Indels 43; Gaps 6;

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RESULT 46

ABU60575 standard; Protein; 280 AA.

ABU60575;

01-MAY-2003 (first entry)

Human secreted/transmembrane protein, #132.

XX

Human; PRO; secreted; transmembrane; signal peptide;  
pharmaceutical; diagnostic; therapeutic; gene therapy.

Human sapiens.

US2002160384-A1.

31-OCT-2002.

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DB 245 FSKDCXELKRCYCERRAGVKNPESL 269

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ID ABUS8700 standard; Protein; 280 AA.

AC ABUS8700;

DT 15-APR-2003 (first entry)

XX Human PRO polypeptide #301.

XX Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach;  
XX liver; dog; cat; cow; horse; sheep; pig; goat; rabbit; ADPRP;  
XX antibody-dependent enzyme mediated prodruug therapy.

XX Homo sapiens.

PN US2003027272-A1.

PD 06-FEB-2003.

PF 21-JUN-2002; 2002US-0176492.

PR 16-SEP-1998; 98WO-US19330.

PR 07-OCT-1998; 98WO-US21141.

PR 01-DEC-1998; 98WO-US25108.

PR 08-MAR-1999; 99WO-US05028.

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PR 15-MAR-2000; 2000WO-US06884.  
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KW pharmaceutical; diagnostic; biosensor; bioreactor; tumour; therapeutic;
KW colon cancer; lung cancer; breast cancer; cancer; gene therapy.
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PR 17-SEP-1998; 98WO-US19437.
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PR 30-NOV-1999; 99WO-US28313.
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[illegible]

XX AC AEU56236;  
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KW chondrocyte cell proliferation; chondrocyte cell differentiation;  
KW tumour; adrenal tumour; lung tumour; colon tumour; breast tumour;  
KW prostate tumour; rectal tumour; cervical tumour; liver tumour;  
KW bone disorder; cartilage disorder; arthritis; sports injury.  
XX OS Homo sapiens.  
XX PN US2003022298-A1.  
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XX PF 20-JUN-2002; 2002US-0176913.  
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PR 14-MAY-1999; 99WO-US10753.  
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PR 17-MAY-2000; 2000WO-US13705.  
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PR 11-AUG-2000; 2000WO-US22031.  
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GenCore version 5.1.6  
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OM protein - protein search, using sw model

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2: p1r2:\*  
3: p1r3:\*  
4: p1r4:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	213	16.9	301	1 LNRT2	hepatic lectin 2 -
2	211.5	16.8	216	2 PT0375	natural killer cel
3	200.5	15.9	301	2 S13165	asialoglycoprotein
4	187	14.8	223	2 A33917	NK-cell receptor p
5	175.5	13.9	188	2 I59421	mast cell function
6	175	13.9	363	2 JE0111	lectin-like oxidiz
7	174.5	13.8	207	1 LNCHL	hepatic lectin - c
8	174	13.8	233	2 PT0372	natural killer cel
9	173.5	13.8	257	2 I50146	gene 17.5 protein
10	170.5	13.5	223	2 B46467	NKR-P1 protein hom
11	167.5	13.3	266	2 I49051	Ly-49F-G3 antigen
12	167	13.2	231	2 PT0374	natural killer cel
13	164.5	13.0	404	2 A46274	HIV gp120-binding
14	163.5	13.0	266	2 I49363	natural killer cel
15	160.5	12.7	266	2 I49114	Ly49H - mouse
16	160.5	12.7	306	2 A42230	lectin M-ASGP-BP p
17	158	12.5	225	2 I38700	hNKR-P1a protein -
18	158	12.5	260	2 I49049	Ly-49D-GE antigen
19	157.5	12.5	262	2 I49361	natural killer cel
20	157.5	12.5	266	2 I49059	Ly49C - mouse
21	157.5	12.5	304	2 JX0209	lectin, galactose/
22	156	12.4	227	2 A46467	natural killer cel
23	152.5	12.1	262	2 A46813	T-cell surface gly
24	151.5	12.0	240	2 I54524	natural killer cel
25	151.5	12.0	266	2 I49050	Ly-49E-G3 antigen
26	151	12.0	284	2 S29855	asialoglycoprotein
27	151	12.0	331	1 LNMSER	IGF Rc receptor, I
28	149.5	11.9	220	2 C46467	NKR-P1 protein hom
29	149.5	11.9	262	2 A30573	T-cell surface gly

30	148	11.7	156	2 T28141	C type lectin, B 1
31	146	11.6	311	1 LNRT2A	asialoglycoprotein
32	145.5	11.5	284	1 LNRTL	hepatic lectin - r
33	145	11.5	267	2 I49053	Ly-49G.2 antigen -
34	144	11.4	288	2 I49058	Ly49C - mouse
35	143.5	11.4	1458	1 A49707	phospholipase A2 r
36	141.5	11.2	280	2 I49052	Ly-49G.1 antigen -
37	141	11.2	262	2 T34115	hypothetical prote
38	140	11.1	380	2 T28081	hypothetical prote
39	139	11.0	1487	2 S48719	phospholipase-A(2)
40	138.5	11.0	1487	2 S48719	hepatic lectin H1
41	137.5	10.9	159	2 JH0822	Lymphocyte early a
42	137	10.9	257	2 I55686	Usp-1 - mouse
43	137	10.9	309	1 S34198	IGF Rc receptor II
44	136.5	10.8	742	2 UC7595	scavenger receptor
45	136	10.8	152	2 UC7134	ackisacuracin alph
46	135	10.7	1643	2 T14274	versican precursor
47	135	10.7	3381	2 T42389	versican precursor
48	134	10.6	2397	1 A55535	versican precursor
49	134	10.6	2409	1 A60879	versican precursor
50	132.5	10.5	1479	2 T42710	mannose receptor,
51	132	10.5	3562	2 A47171	mannose receptor p
52	131.5	10.4	170	2 T28140	mannose receptor p
53	130	10.3	1456	1 A35663	mannose receptor p
54	129.5	10.3	1463	2 A53210	mannose receptor p
55	127	10.1	1455	1 A48925	mannose receptor p
56	125	9.9	144	2 PC7027	mannose receptor p
57	124.5	9.9	321	1 LNRT2	mannose receptor p
58	124	9.8	173	2 T25730	mannose receptor p
59	124	9.8	1257	2 S28764	mannose receptor p
60	123.5	9.8	1326	2 B56395	mannose receptor p
61	123.5	9.8	1465	2 A56395	mannose receptor p
62	123	9.8	1466	1 RGH01B	secretory phosphol
63	122	9.7	173	2 B47148	secretory phosphol
64	122	9.7	237	2 UC7608	reg II, regenerati
65	121.5	9.6	129	2 UC4329	type II lectin-lik
66	121	9.6	133	2 A47267	coagulation factor
67	121	9.6	379	2 T22592	coagulation factor
68	121	9.6	1723	2 S38880	coagulation factor
69	120	9.5	719	2 T00266	coagulation factor
70	118.5	9.4	550	2 A28166	coagulation factor
71	118.5	9.4	883	2 S57653	coagulation factor
72	118	9.4	146	2 JC4691	coagulation factor
73	118	9.4	152	2 JC4690	coagulation factor
74	118	9.4	165	2 A28351	coagulation factor
75	118	9.4	166	1 RGH01A	pancreatic stone p
76	118	9.4	166	1 A45751	pancreatic stone p
77	118	9.4	178	2 T29536	pancreatic stone p
78	117.5	9.3	125	2 B47267	pancreatic stone p
79	117	9.3	333	2 T21595	pancreatic stone p
80	117	9.3	126	2 S52781	pancreatic stone p
81	116	9.2	321	2 T26152	pancreatic stone p
82	115.5	9.2	883	2 S49126	pancreatic stone p
83	115	9.1	147	2 A26697	pancreatic stone p
84	114.5	9.1	125	2 JC5059	pancreatic stone p
85	114	9.0	131	2 JC5058	pancreatic stone p
86	114	9.0	173	2 S10548	pancreatic stone p
87	113.5	8.9	2415	1 A39086	pancreatic stone p
88	112.5	8.9	359	2 A46509	pancreatic stone p
89	112.5	8.9	912	2 A54423	pancreatic stone p
90	112	8.9	166	2 T28809	pancreatic stone p
91	112	8.9	368	2 T25339	pancreatic stone p
92	111.5	8.8	354	2 A32331	pancreatic stone p
93	111	8.8	376	2 UC4892	pancreatic stone p
94	111	8.8	1019	2 A38738	pancreatic stone p
95	111	8.8	2109	1 I50421	pancreatic stone p
96	110.5	8.8	708	2 T19474	pancreatic stone p
97	110	8.7	2124	2 A28452	pancreatic stone p
98	109.5	8.7	146	2 UC7135	pancreatic stone p
99	109.5	8.7	302	2 T25020	pancreatic stone p
100	109.5	8.7	463	2 T26655	pancreatic stone p

## ALIGNMENTS

## RESULT 1

INR2

hepatic lectin 2 - rat

N/Alternate names: asialoglycoprotein receptor RH-2/3 (ASG2-R2/3)

C/Species: Rattus norvegicus (Norway rat)

C/Date: 31-Mar-1988 #sequence revision 09-Apr-1998 #text\_change 22-Jun-1999

C/Accession: B28462; A28462; A31601; A26888; A25417

R/Hilberg, D.F.; Wager, R.E.; Farrell, D.C.; Hildreth IV, J.; Quesenberry, M.S.; Loeb, J.

J. Biol. Chem. 262, 9828-9838, 1987

A/Title: Major and minor forms of the rat liver asialoglycoprotein receptor are independent

A/Reference number: A28462; MUID:87250656; PMID:3597453

A/Accession: B28462

A/Molecule type: mRNA

A/Residues: 1-301 &lt;HML&gt;

A/Cross-references: GB:U02762; NID:G205162; PIDN:AAA1522.1; PID:G205163

A/Accession: A28462

A/Molecule type: protein

A/Residues: 88-96; 'X', 98-118; 'X', 120-129-158; 177-182; 'X', 184; 'X', 186-189; 192-290; 'C', 292

R/Sanford, J.P.; Elliott, R.W.; Doyle, D.

DNA 7, 721-728, 1988

A/Title: Asialoglycoprotein receptor genes are linked on chromosome 11 in the mouse.

A/Reference number: A31601; MUID:89170119; PMID:3234178

A/Accession: A31601

A/Molecule type: mRNA

A/Cross-references: GB:X07636; NID:G57066; PIDN:CAA30476.1; PID:G57067

R/MCPHaul, M.; Berg, P.

Mol. Cell. Biol. 7, 1841-1847, 1987

A/Title: Identification and characterization of cDNA clones encoding two homologous prot

A/Reference number: A26888; MUID:87257885; PMID:3600647

A/Accession: A26888

A/Molecule type: mRNA

A/Residues: 1-152; 'A', 154-201; 'T', 203-259; 'C', 261-301 &lt;MCP&gt;

A/Cross-references: GB:M6347; NID:G206648; PIDN:AAA42038.1; PID:G206649

A/Note: The authors translated the cDNA GCA for residue 153 as Arg and Art for residue

R/Dickamer, K.; Mamou, J.F.; Birms, G.; Leung, J.O.

J. Biol. Chem. 269, 770-778, 1984

A/Title: Primary structure of the rat liver asialoglycoprotein receptor: structural evid

A/Reference number: A25417; MUID:84111554; PMID:6393366

A/Accession: A25417

A/Molecule type: protein

A/Residues: 201-259; 'C', 261-281; 'ND', 284-301 &lt;DRI&gt;

C/Comment: Calcium is required for ligand binding.

C/Superfamily: hepatic lectin; C-type lectin homology

C/Keywords: endocytosis; glycoprotein; lectin; liver; receptor; transmembrane protein

F:2-60/Domain: intracellular #status predicted &lt;INT&gt;

F:61-77/Domain: transmembrane #status predicted &lt;TRN&gt;

F:78-301/Domain: extracellular #status predicted &lt;EXT&gt;

F:170-293/Domain: C-type lectin homology &lt;LCH&gt;

F:97,119,165/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 16.9%; Score 213; DB 1; Length 301;  
Best Local Similarity 24.9%; Pred. No. 1.5e-11;  
Matches 72; Conservative 41; Mismatches 96; Indels 80; Gaps 11;

QY 3 DEDGYITLTKTRKPAIVSVGPASSFWRV-----MATLLILCYGVNGLVALG 52  
 Db 24 EEQSHVQNTERTPRWGCGPSPRPQRLCSXRLSLALAFITLLLVIVCVSSQSQ 83  
 QY 53 I-----NSVMQR-----NYLDSENEKTCGLQQLAKFCQYVVKQSLK 92  
 Db 84 LQKFWFLTKETLSNFSSTTTFMEFKALDSHGSRNDNLTSWETLEK-----KQKDIKA 136  
 QY 93 TF-----KQHKCSPCDTNMYYYGDSCYGFPRRLTWES 126  
 Db 137 DHTSLTHIKHFPDLRTIQQLAFPLNSGTEC--CPNNVYBPGSCYWSRDCIWAHA 194  
 QY 127 KQYCTDMNATLLKIDNRIYVY-IKATHTLIRWGLSRQKSNVWKWEDGSVISEN 182  
 Db 195 DQYQEMENAHLLVINSREGEFVYHKGAFHIIWGLTDKGS--WKWVDGTEYSNFKW 252

QY 183 -----FPELEDKGNMCA-YFHNKMKPTECNKHYLMCRKAGMT 223  
 Db 253 AFTQPEMNGHBERG-GSEDCALISLSDGLWNDFCCQOVNWCERKRDIT 300

## RESULT 2

PT0375

natural killer cell receptor group 2-D - human

N/Alternate names: integral membrane protein NKG2-D

C/Species: Homo sapiens (man)

C/Date: 31-Mar-1992 #sequence revision 31-Mar-1992 #text\_change 05-May-2000

C/Accession: PT0375; S15671; S19110

R/Houchins, J.P.; Yabe, T.; Mosher, C.; Sach, F.H.

J. Exp. Med. 173, 1017-1020, 1991

A/Title: DNA sequence analysis of NKG2, a family of related cDNA clones encoding type II

A/Reference number: PT0372; MUID:91178434; PMID:2007850

A/Accession: PT0375

A/Molecule type: mRNA

A/Residues: 1-216 &lt;HOU&gt;

A/Cross-references: EMBL:X54870; NID:G35062; PIDN:CAA38652.1; PID:G35063

A/Experimental source: natural killer cell

A/Note: translation of nucleotide sequence is not complete

C/Keywords: transmembrane protein

Query Match 16.8%; Score 211.5; DB 2; Length 216;  
 Best Local Similarity 29.0%; Pred. No. 1.4e-11;  
 Matches 51; Conservative 35; Mismatches 57; Indels 33; Gaps 7;

QY 48 LVALG:MSVMQRXYLDSENEKTCGLQQLAKRCQYVVKQSLKSGYKHKCSPCDTN 107  
 Db 66 IIVWALMSAVPLNSL-----FNQEV-QIPLTSEY---CGPCRNWI 104  
 QY 108 YYGDSCYGFPRRLTWESKQYCTDMNATLLKTI---DNRNIVYIYARTHLIRWGLSRQ 164  
 Db 105 CYKNNQCYGFDESKMNYESQASCMQNASLLKYSKEDDLKTVMS---YHWGLVHL 160  
 QY 165 KSNVWKWEDGSVISENMFPELEDKGNMCA-YFHNKMKHPTECNKHYLMCRK 219  
 Db 161 PTNGSQWMBGDSILSNRLITTEMQKG--DCLVASSFYGILNCSPTPTVITCMR 214

## RESULT 3

S13165

asialoglycoprotein receptor - mouse

N/Alternate names: hepatic lectin

C/Species: Mus musculus (house mouse)

C/Date: 21-Nov-1993 #sequence revision 10-Nov-1995 #text\_change 20-Aug-1999

C/Accession: S13165

R/Sanford, J.P.; Doyle, D.

Biochim. Biophys. Acta 1087, 259-261, 1990

A/Title: Mouse asialoglycoprotein receptor cDNA sequence: conservation of receptor gene

A/Reference number: S13165; MUID:91027942; PMID:2223888

A/Accession: S13165

A/Molecule type: mRNA

A/Residues: 1301 &lt;SAN&gt;

A/Cross-references: EMBL:X53042; NID:G53104; PIDN:CAA37211.1; PID:G53105

C/Superfamily: hepatic lectin; C-type lectin homology

C/Keywords: glycoprotein; liver; transmembrane protein

F:170-293/Domain: C-type lectin homology &lt;LCH&gt;

Query Match 15.9%; Score 200.5; DB 2; Length 301;  
 Best Local Similarity 31.2%; Pred. No. 2e-10;  
 Matches 48; Conservative 24; Mismatches 61; Indels 21; Gaps 5;

QY 81 CQYVVKQSLKSGYKHKCSPCDTNMYYYGDSCYGFPRRLTWESKQYCTDMNATLLK 140  
 Db 157 QQLAVPQS-----NGTEC--CPNNVYBPGSCYWSRDCIWAHADQYQQLENAHLLVI 208  
 QY 141 DNRNIVYIY-IKATHTLIRWGLSRQKSNVWKWEDGSVISEN-----FPELEDK 189  
 Db 209 NSREEDQFVYHGSQPHIWIWGLTDKGS--WKWVDGTEYSNFKWAFQPDNMGHBERG 266

QY 190 KGNMCAVFHNGKMHPTFCENKHYLMCERKAGMT 223  
 Db 267 GGEDCAELISDGHNDNFCCQVYVNWVCYCKRANIT 300

## RESULT 4

A35917  
 NK-cell receptor p1 - rat  
 C/Species: Rattus norvegicus (Norway rat)  
 C/Date: 12-Apr-1991 #sequence\_revision 12-Apr-1991 #text\_change 24-Sep-1999  
 C/Accession: A35917  
 R/Giorde, R.; Rudert, M.A.; Vassascri, C.; Chambers, W.H.; Hiserodt, J.C.; Trucco, M.  
 Science 249, 1298-1300, 1990  
 A/Title: NKRP-1, a signal transduction molecule on natural killer cells.  
 A/Reference number: A35917; MUID:90378305; PMID:2399464  
 A/Accession: A35917  
 A/Status: Preliminary  
 A/Molecule type: mRNA  
 A/Residues: 1-223 <GIO>  
 A/Cross-references: GB:M62891; NID:G205722; PIDN:AAA41713.1; PID:G205723  
 C/Superfamily: natural killer cell receptor p1; C-type lectin homology  
 C/Keywords: transmembrane protein  
 F/94210/Domain: C-type lectin homology <LCH>

Query Match 14.8%; Score 187; DB 2; Length 223;  
 Best Local Similarity 22.7%; Pred. No. 2,3e-09;  
 Matches 53; Conservative 50; Mismatches 84; Indels 46; Gaps 5;

QY 8 ITLNIRKRPAL-----VSVPASSFWMEVVALILICVGVVGLVGLVSWQNR 60  
 Db 6 VYSLKSKSTAAAGQCVSPSPIDACRPSHRLAKLSCAGILVLAIVKXILVRV 65  
 QY 61 YLQ-----DENNRGTGLQOLAKRFGCYVVKOSLKGTFKHGKSPCTNNRY 109  
 Db 66 LVQKPSPEPCRVLIQENLSTKSPAKL-----KCEKMLSH 101  
 QY 110 GDSCYGFRRNLTWESKOYCTDMNATLLKIDNRNIVEIYARTHLR--WVGLSRQKS 166  
 Db 102 RDKCFHVSQSIWTKESLADCGKATILLVQDEHRLFRNLTKRISSSRWIGLSTLS 161  
 QY 167 NEWKAKDDGVISNMFLEJDKGNMCAVFHNGKMHPTFCENKHYLMCERK 219  
 Db 162 DENMKWINGSTLNSDVLSITGDTKED-SCASVSQDKVLSGDSNDINWQKE 213

## RESULT 5

I59421  
 mast cell function associated antigen - rat  
 C/Species: Rattus norvegicus (Norway rat)  
 C/Date: 02-Jul-1996 #sequence\_revision 02-Jul-1996 #text\_change 05-Nov-1999  
 C/Accession: I59421  
 R/Gutmann, M.D.; Tai, M.; Pecht, I.  
 Proc. Natl. Acad. Sci. U.S.A. 92, 9397-9401, 1995  
 A/Title: A secreted inhibitory signal transduction molecule on mast cells is another C-  
 A/Reference number: I59421; MUID:96016176; PMID:7568140  
 A/Accession: I59421  
 A/Status: Preliminary  
 A/Molecule type: mRNA  
 A/Residues: 1-188 <RKS>  
 A/Cross-references: EMBL:X79812; NID:G1020141; PIDN:CAA56208.1; PID:G1020142  
 C/Genetics:  
 A/Gene: macta

Query Match 13.9%; Score 175.5; DB 2; Length 188;  
 Best Local Similarity 26.9%; Pred. No. 2,1e-08;  
 Matches 61; Conservative 32; Mismatches 83; Indels 51; Gaps 12;

QY 1 MODEGYITLNIRKRPALVSGPASFWRVMAILLICVGVVGLVGLVSWQNR 60  
 Db 1 MAUNSTVSTEL-----PAARVQDDSR--WKVKA-VLHRCVSYIV-MVALGLLITVIMS 52  
 QY 61 YLQDENNRGTGLQOLAKRFGCYVVKOSLKGTFKHGKSPCTNNRYGDSQCY3FFRRN 120

Db 53 LILYORTLCGS-----KG-FMCSQSCRCPJLWNRNSHCYFPMER 93

QY 121 LTWEESKOYCTDMNATLLKI-DNRNI---VEYIKARTHLIRWGLSPQKSEVWKWEDG- 175  
 Db 94 RDMWSLXKPADKXSHLLTFPDNQGYNLPOBYGDEPY---WIGL---RIDGKRWDDGP 147

QY 176 ---SVISNMFLEJDKGNMCAVFHNGKMHPTFCENKHYLMCER 218  
 Db 148 ALSISLNSNVQ-----KCGTIRRCGLHASSCEVALQWICEK 185

## RESULT 6

JE0111  
 lectin-like oxidized LDL receptor - mouse  
 N/Alternate names: LDX-1  
 C/Species: Mus musculus (house mouse)  
 C/Date: 22-May-1998 #sequence\_revision 29-May-1998 #text\_change 07-May-1999  
 C/Accession: JE0111  
 R/Hoshikawa, H.; Sawamura, T.; Kakutani, M.; Aoyama, T.; Nakamura, T.; Masaki, T.  
 Biochem. Biophys. Res. Commun. 245, 841-846, 1998  
 A/Title: High affinity binding of oxidized LDL to mouse lectin-like oxidized LDL recept  
 A/Reference number: JE0111; MUID:98249801; PMID:9588202  
 A/Accession: JE0111  
 A/Molecule type: mRNA  
 A/Residues: 1-363 <HOS>  
 F/34-59/Domain: transmembrane #status predicted <TM>

Query Match 13.9%; Score 175; DB 2; Length 363;  
 Best Local Similarity 24.9%; Pred. No. 4,8e-08;  
 Matches 43; Conservative 38; Mismatches 60; Indels 32; Gaps 7;

QY 62 LDENNRGTGLQOLAKRFGCYVVKOSLKGTFKHGKSPCTNNRYGDSQCYGFRRN 121  
 Db 214 LILKNQNLQALQPAAD-----NPSG-----PCPDWIMHKNQCY-LFRCPF 253  
 QY 122 TWESKOYCTDMNATLLKIDNRNIVEIYARTHLR--WVGLSRQKSNEWKWDQSVI 178  
 Db 254 SMKMRQTCSLGGQLQINGADLFFILQAIHTSPFWIGJHRKKRPGQPMWENIGPL 313  
 QY 179 SENMFLEJDKGNM-----NCAVFNQGMHPTFCENKHYLMCERKAGMTKV 225  
 Db 314 N---FQPKRGTGVSLQVSSGNCAYLDQDAVPAPNCILIAFSCQKKTTHLQI 363

## RESULT 7

LINCH  
 hepatic lectin - chicken  
 C/Species: Gallus gallus (chicken)  
 C/Date: 08-Oct-1981 #sequence\_revision 08-Oct-1981 #text\_change 22-Jun-1999  
 C/Accession: A03167; A28194; A40427  
 R/Dickamer, K.  
 J. Biol. Chem. 256, 5827-5839, 1981  
 A/Title: Complete amino acid sequence of a membrane receptor for glycoproteins. Sequenc  
 A/Reference number: A03167; MUID:81215504; PMID:7240175  
 A/Accession: A03167  
 A/Molecule type: protein  
 A/Residues: 1-207 <DRI>  
 A/Note: some or all of the cysteines are involved in disulfide bonds  
 A/Note: residues 24-48 form an unchanged, hydrophobic region that may interact with or  
 J. Biol. Chem. 263, 5468-5473, 1988  
 A/Title: Endocytosis of N-acetylglucosamine-containing glycoproteins by rat fibroblasts  
 A/Reference number: A28194; MUID:88186849; PMID:3281941  
 A/Accession: A28194  
 A/Molecule type: mRNA  
 A/Residues: 1-207 <MEL>  
 A/Cross-references: GB:J03188; NID:G212246; PIDN:AAA48937.1; PID:G212247  
 R/Bezouska, K.; Crichton, G.V.; Rose, U.M.; Taylor, M.E.; Dickamer, K.  
 U. Biol. Chem. 266, 11604-11609, 1991  
 A/Title: Evolutionary conservation of intron position in a subfamily of genes encoding  
 A/Reference number: A40427; MUID:91268022; PMID:2050668  
 A/Accession: A40427  
 A/Molecule type: DNA

A:Residues: 1-207 <BER>  
A:Cross-references: GB:M63225; GB:M63226; GB:M63227; GB:M63228; GB:M63229; GB:M63230; NT  
C:Comment: Hepatic lectin is a membrane receptor protein that recognizes and binds exposed  
and endocytosis.  
C:Genetics:  
A:Introns: 15/1; 75/1; 125/3; 163/2  
C:Superfamily: hepatic lectin; C-type lectin homology  
C:Keywords: acetylated amino end; glycoprotein; lectin; transmembrane protein  
F:1-23/Domain: intracellular #status predicted <INT>  
F:24-47/Domain: transmembrane #status predicted <TRA>  
F:48-207/Domain: extracellular #status predicted <EXT>  
F:78-201/Domain: C-type lectin homology <LCH>  
F:1/Modified site: acetylated amino end (Met) #status experimental  
F:67/Binding site: carbohydrate (Asn) (covalent) #status experimental

Query Match 13.8%; Score 174.5; DB 1; Length 207;  
Best Local Similarity 25.8%; Pred. No. 2.9e-08;  
Matches 41; Conservative 36; Mismatches 69; Indels 13; Gaps 5;

QY 72 TLQQLAKFCQVYVQKSLKGFH-----KCSGCDINRYGDSCTGPFRRNLTWES 126  
DB 46 SLARPAISKSLTQSPKINFSRDLPPCGAQSTQMEYFQRCYFSLSSWYKA 105  
QY 127 KOYCDNATLLKIDNENIVEYKARTHLIR-WGLSRQKSNFYWKMGDSVISENMPF 135  
DB 106 KAECEWASHLLIDSVAKQNFVMEFRITNERFWICLTIDNNGEGWQWDGT-DTRSSPTF 164  
QY 186 LEDGK-----NNMCAY-FHNGKHPITGCKHYLMCR 218  
DB 165 WKGEENRGNEDCAHYWTSGQWMDVYCYEYVYCK 203

## RESULT 8

PT0372  
natural killer cell receptor group 2, splice form A - human  
N:Alternate names: NK2-A; NK2-B  
N:Contents: natural killer cell receptor group 2, splice form B  
C:Species: Homo sapiens (man)  
C>Date: 31-Mar-1992 #sequence\_revision 31-Mar-1992 #text\_change 05-May-2000  
R:Accession: PT0372; PT0373  
R:History: J. P.; Yabe, T.; McSherry, C.; Bach, F.H.  
J. Exp. Med. 173, 1017-1020, 1991  
A>Title: DNA sequence analysis of NK2, a family of related cDNA clones encoding type II  
A:Reference number: PT0372; MUID:91178434; PMID:2007850  
A:Accession: PT0372  
A:Molecule type: mRNA  
A:Residues: 1-233 <HO1>  
A:Cross-references: EMBL:X54867; NID:935056; PIDN:CAA38649.1; PID:935057  
A:Experimental source: natural killer cell  
A:Accession: PT0373  
A:Molecule type: mRNA  
A:Residues: 1-95,114-233 <HO2>  
A:Cross-references: GB:X54868; NID:935058; PIDN:CAA38650.1; PID:935059  
A:Experimental source: natural killer cell  
C:Genetics:  
A:Gene: GDB:XLR01; NK2  
A:Cross-references: GDB:138773; OMIM:161555  
A:Map position: 12pter-12qter  
C:Superfamily: natural killer cell receptor P1; C-type lectin homology  
C:Keywords: alternative splicing; glycoprotein; lectin; transmembrane protein  
F:71-98/Domain: transmembrane #status predicted <TRA>  
F:119-229/Domain: C-type lectin homology <LCH>  
F:102,103,151,180/Binding site: carbohydrate (Asn) (covalent) #status predicted  
F:119-130,147-229,208-221/Disulfide bonds: #status predicted

Query Match 13.8%; Score 174; DB 2; Length 233;  
Best Local Similarity 23.9%; Pred. No. 3.6e-08;  
Matches 44; Conservative 28; Mismatches 86; Indels 26; Gaps 4;

QY 36 ILLILCGMVGVALGWSVMQKNYLODENERTGLQQLAKFCQVYVQKSLKGF 95  
DB 75 ILGILILMASVVTI---VPISTLIQRHNSSLNTRTQ-----K 112

QY 96 GHKSPCDTWRYGSCYGFPRHNLTWESKQYCTDMNATLLKIDNRIWEYIKARTHL 155  
DB 113 ARHGHCPESMTIYNSCYIGKERTWESLJACTSKNSLSDIBESMKFLSTSP- 171  
QY 156 IRWGLSRQKSNFYWKMGDSVISENFEFLDEGKGMNCAYPFNGMHTFPCNKHYLM 215  
DB 172 SSWIGFRNSHHDPWTMNLAFKH---ELKSDMELNCAVQVNLKGAQCGSLIYH 228  
QY 216 CERK 219  
DB 229 CKHK 232

## RESULT 9

150146  
gene 17.5 protein - chicken  
C:Species: Gallus gallus (chicken)  
C>Date: 13-Sep-1996 #sequence\_revision 13-Sep-1996 #text\_change 21-Jul-2000  
C:Accession: 150146  
R:Bernot, A.; Zoccol, R.; Aufray, C.  
Immunogenetics 39, 221-229, 1994  
A>Title: Linkage of a new member of the lectin supergene family to the chicken Mhc gene  
A:Reference number: 150146; MUID:9416491; PMID:8119728  
A:Accession: 150146  
A:Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: mRNA  
A:Residues: 1-257 <BER>  
A:Cross-references: GB:M88072; NID:9505324; PIDN:AAA4858.1; PID:9505325  
C:Superfamily: C-type lectin homology  
F:129-241/Domain: C-type lectin homology <LCH>

Query Match 13.8%; Score 173.5; DB 2; Length 257;  
Best Local Similarity 27.1%; Pred. No. 4.5e-09;  
Matches 35; Conservative 25; Mismatches 56; Indels 13; Gaps 4;

QY 99 CSP-----CDTWRYGSCYGFPRHNLTWESKQYCTDMNATLLKIDNRIWEY-IX 150  
DB 119 CSPAPPSHYCPNMAVGFQKCYFSPTEBDMSSRHCHRLGSLTLDTKREMEPLQ 178  
QY 151 ARTHLIRWGLSRQKSNFYWKMGDSVISEN-MFEFLDEGKGMNCAYPFNGMHTFPC 209  
DB 179 YORPADRWIGLHRAEGDEHWTWADGSAFTIRPVFEL---RGGRCAYLNGDGISSALCH 234  
QY 210 NKHYLMCR 218  
DB 235 SEKFWVCSR 243

## RESULT 10

B46467  
NKR-P1 protein homolog - mouse  
C:Species: Mus musculus (house mouse)  
C>Date: 18-Jun-1993 #sequence\_revision 18-Nov-1994 #text\_change 24-Sep-1999  
C:Accession: B46467  
R:Giorda, R.; Trucco, M.  
J. Immunol. 147, 1701-1708, 1991  
A>Title: A family of genes selectively coexpressed in adherent lymphokine-activated K1  
A:Reference number: A46467; MUID:91349596; PMID:188042  
A:Accession: B46467  
A:Status: preliminary  
A:Molecule type: mRNA  
A:Residues: 1-223 <GTO>  
A:Cross-references: GB:M77677; NID:920060; PIDN:AAA39823.1; PID:920060  
A:Experimental source: NK cells, CS7BL/7B  
A>Note: sequence extracted from NCBI backbone (NCBIN:52380, NCBIPI:52381)  
C:Superfamily: natural killer cell receptor P1; C-type lectin homology  
C:Keywords: transmembrane protein  
F:94-210/Domain: C-type lectin homology <LCH>

Query Match 13.5%; Score 170.5; DB 2; Length 223;  
Best Local Similarity 26.1%; Pred. No. 7.1e-08;  
Matches 61; Conservative 37; Mismatches 87; Indels 49; Gaps 10;



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QY 7 YITLNI-----KTRKPAIVSVGPASSFWWRVMAAIL-----LILGVWVGLVGLGIMSV 56
Db 8 YADLNLARIQEPKEDSPSLSPDTCRCPRMHLALFGAGLILVIVIGLCTL-VLSV 66
QY 57 MORANLQ-----DENNRIGTLOQLAKRFQYVVKSEBKGFPGKKS---PCDTNMYRY 109
Db 67 -QKSSVQKICADVQRRTHTTD-----CSVNLCCPDQDWSH 101
QY 110 GPSGCFPRHNLTWESKQCYCDNMAATLKLKIDN-----INIVYIKARTHILIRVGLSLKQK 165
Db 102 RDKCRVRVQVSWTWBEGQDCCRKGAATLILQDQELRFLDLDSIEKXNSF-WIGLRFTL 160
QY 166 SNEVKWEDGSVISSEMFLEDDGKNNMCAYFENGKAPTEPCENKHYLMCEK 219
Db 161 PDMWKWINGTTFNSDVAKITGDTE-NGSCASISDPRVTSKSIDNMTICQKE 213

RESULT 11
149051
Ly-49F-G2 antigen - mouse
C/Species: Mus musculus (house mouse)
C/Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 19-May-2000
C/Accession: I49051
R/Smith, H.R.; Karhofer, F.M.; Yokoyama, W.M.
J. Immunol. 153, 1068-1079, 1994
A/Title: Ly-49 multigene family expressed by IL-2-activated NK cells.
A/Reference number: I49049; MUID:94300068; PMID:8027540
A/Accession: I49051
A/Status: preliminary; translated from GB/EMBL/DBJ
A/Molecule type: mRNA
A/Residues: 1-266 <RES>
A/Cross-references: EMBL:U10092; NID:9533491; PIDN:AAA50220.1; PID:9533492
C/Superfamily: natural killer cell receptor P1, C-type lectin homology

Query Match
Best local similarity 13.3%; Score 167.5; DB 2; Length 266;
Matches 58; Conservative 40; Mismatches 86; Indels 61; Gaps 11;

QY 27 SFWRVVALILILCVGWVGLVGLVGLT-----WSYKQNY-LQD 64
Db 40 SYCQGLVYKALGILCFILITVAALVAVIYGYQNHIEHTLYHNHNSKXGSDFMKE 99
QY 65 EN-----ENRTGF-1QQLAKRFQYVVKSEBKGFPGKKSPPCDTN-----WRYGSD 111
Db 100 EMLNRSIDSRPQNELLESINR-----EQNGVSEKTDLDSSQDTGCVKXWFCYRT 152
QY 112 SCYCFPRHNLTWESKQCYCDNMAATLKLKIDNINVEYIKARTHLI---RWVGLSRQKSE 168
Db 153 KCYIFINXKNTWSSCKQNCQHTSLPLVKIDENELKEFLQFQ-VIPDSYWGSLSYDEKK 210
QY 169 VMKWDGSVISSENF-----FEFLDDGKNNMCAYFENGKAPTEPCENKHYLMCEKAKMTK 224
Db 211 EMANIDNGQSKLDKIKRKNFKPGS-----CVFLSKRLIEDTNCKNSHYICQK----K 260
QY 225 VDQLP 229
Db 261 LDKRP 265

RESULT 12
PT0374
Natural killer cell receptor group 2-C, splice form 1 - human
A/Alternate names: NKG-C
C/Species: Homo sapiens (man)
C/Date: 31-Mar-1992 #sequence_revision 31-Mar-1992 #text_change 19-May-2000
C/Accession: PT0374
R/Huchins, D.S.; Yabe, T.; Mosher, C.; Bach, F.H.
J. Exp. Med. 173, 1017-1020, 1991
A/Title: DNA sequence analysis of NKG2, a family of related cDNA clones encoding type II
A/Reference number: PT0372; MUID:9117843; PMID:2007850
A/Molecule type: mRNA
A/Residues: 1-231 <HOU>

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A/Cross-references: EMBL:X54869; NID:935060; PIDN:CAA38651.1; PID:935061
A/Experimental source: natural killer cell
C/Genetics:
A/Gene: GDB:KLRG2; NKG2-C
A/Cross-references: GDB:9787095
A/Map position: 12p13-12p13
C/Superfamily: natural killer cell receptor P1, C-type lectin homology
C/Keywords: glycoprotein; transmembrane protein
F/71-96/Domain: transmembrane status predicted <TRA>
F/27,100,149,178/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match
Best local similarity 13.2%; Score 167; DB 2; Length 211;
Matches 43; Conservative 32; Mismatches 86; Indels 28; Gaps 4;

QY 31 RVALILILILCVGWVGLVGLGIMSVQGRNLTQDENNRIGTLOQLARFQYVVKSEI 90
Db 70 KLTAEVLGIIC-----IYLMATVLTIVILPILBQNNSEPNRTQ----- 109
QY 91 KGTFRGKKSPPCDTNMYRYGDSYGFPRHNLTWESKQCYCDNMAATLKLKIDNINVEYIK 150
Db 110 ----KARHCGHCPSEMTTYSNCCYIGKERTWFEILLACTSKXSLISNESEIKL- 164
QY 151 ARTHLIRVGLSRQKSEVMKWDGSVISSEMFLEDDGKNNMCAYFENGKAPTEPCEN 210
Db 165 ASLPPSWIGVPRUSHHFWITNGIAFKH--KIKSDNAELNCAVLQVNRILKSAQGS 221
QY 211 KEVLMCEK 219
Db 222 SMYVCKHK 230

RESULT 13
A46274
HIV gp120-binding C-type lectin - human
C/Species: Homo sapiens (man)
C/Date: 21-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 01-Dec-1995
C/Accession: A46274
R/Curtis, B.M.; Schatzow, S.; Watson, A.J.
Proc. Natl. Acad. Sci. U.S.A. 89, 8356-8360, 1992
A/Title: Sequence and expression of a membrane-associated C-type lectin that exhibits C
A/Reference number: A46274; MUID:92390446; PMID:1518869
A/Accession: A46274
A/Status: preliminary
A/Molecule type: nucleic acid
A/Residues: 1-404 <CUR>
A/Experimental source: Placenta
A/Note: sequence extracted from NCBI backbone (NCBIN:113134, NCBIPI:113135)
C/Superfamily: C-type lectin homology
F/256-377/Domain: C-type lectin homo-ogy <LCH>

Query Match
Best local similarity 13.0%; Score 164.5; DB 2; Length 404;
Matches 38; Conservative 37; Mismatches 79; Indels 11; Gaps 5;

QY 71 GTLOLAKRFQYVVKQ-SZLKGTFRGKKSPPCDTNMYRYGDSYGFPRHNLTWESKQY 129
Db 227 GELPEKSKQ--QRIYQELTQLKAAVE-RLCHPQEWETPFQNGCYFMSNQRWHDSDITA 283
QY 130 CTDMNATLKI---DNINIVEYIKARTHLIRVGLSLRQKSEVMKWDGSVISSEMFLE 166
Db 284 CKEVGAQIVYIKAEARONFLQLOSSKSNRTWVGLSDLDNDEGTWQVDSPL--SFFQYW 343
QY 187 EDCK---GNMNCAYFENGKAPTEPCENKHYLMCEKAKMTKYDQ 227
Db 344 NRGEPNNVGEEDCAEFSGNGMNDKCNLAKEFMCXKSAASCSRDE 388

RESULT 14
149363
Natural killer cell receptor Ly49C - mouse
C/Species: Mus musculus (house mouse)
C/Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 17-Mar-2000

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Db 207 DWAMIDNPPSKALNTRXYNTRDG-----GOMLSKTRIDNNGCDQVFCIGCK-----RL 257  
 QY 226 DOLP 229  
 Db 258 DKFP 261

## RESULT 24

154524  
 natural killer cell receptor group 2-C, splice form 2 - human  
 C/Species: Homo sapiens (man)  
 C/Date: 07-Jun-1996 #sequence\_revision 07-Jun-1996 #text\_change 19-May-2000  
 C/Accession: 154524  
 R/Adamkiewicz, T.V.; McSherry, C.; Bach, F.H.; Houchins, J.P.  
 Immunogenetics 39, 218, 1994  
 A/Title: Natural killer lectin-like receptors have divergent carboxy-termini,  
 A/Reference number: 154524; MUID:94102823; PMID:8276468  
 A/Accession: 154524  
 A/Status: preliminary; translated from GB/EMBL/DDBJ  
 A/Molecule type: mRNA  
 A/Residues: 1-240 <RES>  
 A/Cross-references: GB:U4542; NID:G292360; PIDN:AAA1683.1; PID:G292361  
 C/Genetics:  
 A/Gene: GDB:KLRG2; NKG2-C  
 A/Cross-references: GDB:9787095  
 A/Map position: 12p13-12p13  
 C/Superfamily: natural killer cell receptor P1; C-type lectin homology

Query Match 12.0%; Score 151.5; DB 2; Length 240;  
 Best Local Similarity 24.7%; Pred. No. 3.9e-06;  
 Matches 42; Conservative 26; Mismatches 73; Indels 29; Gaps 5;

QY 31 RYVALILILICVGMVGVLMGWSWQRYLQDENNRGTQLAKRFQYVVKSEL 90  
 Db 70 KLTAEVGLITC-----IVMATVLTIVLIPLEQNNSSPTRTQ----- 109  
 QY 91 KGTFKHKSCPDNTNMYGDSYGFRRNLTWESKQYCTDNN-ATILKIDNNIVEYI 149  
 Db 110 ----KAPCGCHCEPWITTSNSCYIGKERRTWESLQACSKSSSLSLTDEBEKFL 165  
 QY 150 KARTHLRLWYGLSRQKSNVWKKWEDGSVISENMFELJEDGKNKCAYPH 199  
 Db 166 -ASTLPSSWIGVFANSSHPVTLINGLAFKH---EIKDSDHAERNCAMLH 211

## RESULT 25

149050  
 ly-49E-GF antigen - mouse  
 C/Species: Mus musculus (house mouse)  
 C/Date: 02-Jul-1996 #sequence\_revision 02-Jul-1996 #text\_change 19-May-2000  
 C/Accession: 149050  
 R/Smith, H.R.; Karhofer, F.M.; Yokoyama, W.M.  
 J. Immunol. 153, 1068-1079, 1994  
 A/Title: ly-49 multigene family expressed by IL-2-activated NK cells.  
 A/Reference number: 149049; MUID:94300068; PMID:8027540  
 A/Accession: 149050  
 A/Status: preliminary; translated from GB/EMBL/DDBJ  
 A/Molecule type: mRNA  
 A/Residues: 1-266 <RES>  
 A/Cross-references: EMBL:U10091; NID:G533488; PIDN:AAA5022.9.1; PID:G533490  
 C/Superfamily: natural killer cell receptor P1; C-type lectin homology

Query Match 12.0%; Score 151.5; DB 2; Length 266;  
 Best Local Similarity 20.7%; Pred. No. 4.4e-06;  
 Matches 50; Conservative 38; Mismatches 94; Indels 59; Gaps 9;

QY 30 WRMALILILICGVVGVVALGIMSVQMRYNODENNETGTLLQOLAKRFQYVVKSEL 89  
 Db 43 WQTVSLGIFCPLLLTAVAVLAKLFOYSQKHQELHE---TLNH--HNHCSNMQSDIK 96  
 QY 90 LKSTFGKHK---CSPCD-----TWKRYGSCYCG 115

Db 97 LKEMLNKSIDCPGSEELLESLNRBNRYSTRTDIDSCDTGTGKMFYCYGCKCFY 156  
 QY 116 FFRHLTWESKQYCTDNNATLTKIDNNIVEYIKARTHLIR---WYGLSRQKSNVWKK 172  
 Db 157 FIMSKNTWGGCKQTCQHYSLPLVXIETDEDELKTFQFQ--VISDSYWGLSYDKKKRQW 214  
 QY 173 EDGSVISENM---FEFLEDGKNNCAYPHNGMGFPFCENKHYLNCERYAKGTRVDOL 228  
 Db 215 IDNGPSKLDKMTKRMKPKPG-----CIFLSKTRLEDTNKNNSYFCIGCK-----KLDHF 264  
 QY 229 P 229  
 Db 265 P 265

## RESULT 26

529655  
 asialoglycoprotein receptor 1 - mouse  
 C/Species: Mus musculus (house mouse)  
 C/Date: 13-Jan-1995 #sequence\_revision 13-Jan-1995 #text\_change 20-Jun-2000  
 C/Accession: S29855  
 R/Ikezawa, R.; Shinzawa, K.; Watanabe, Y.; Akaike, T.  
 Biochim. Biophys. Acta 1172, 220-222, 1993  
 A/Title: Determination of mouse major asialoglycoprotein receptor cDNA sequence.  
 A/Reference number: S29855; MUID:93176818; PMID:8439566  
 A/Accession: S29855  
 A/Status: preliminary  
 A/Molecule type: mRNA  
 A/Residues: 1-284 <TRK>  
 A/Cross-references: EMBL:D13517; NID:G220480; PIDN:BA02734.1; PID:G220481  
 C/Superfamily: hepatic lectin; C-type lectin homology  
 C/Keywords: glycoprotein; transmembrane protein  
 F153-276/Domain: C-type lectin homology <LCH>

Query Match 12.0%; Score 151; DB 2; Length 284;  
 Best Local Similarity 24.3%; Pred. No. 5.2e-06;  
 Matches 44; Conservative 33; Mismatches 84; Indels 20; Gaps 6;

QY 58 QRYVLDENNRGTQLAKRFQYVVKSELKTFKHKSCPDNTNMYGDSYGF 117  
 Db 111 QQKDLTDEHSSLLHVKQVSDVRSLSQMAAFRGNCSERTC--CPINWYEGSCYWF 168  
 QY 118 RHNLTWESKQYCTDNNATLTKIDNNIVEYIART-HILRWGLSRQKSNVWKKEDGS 176  
 Db 169 SSVPMTBADKTYQLNNAHLVVTSSDEQNFQRMHGPALWTGLTDQ--NGSKWVDGT 226  
 QY 177 VISENMFEELEDGK-----GNMNCAYF-HNGMGRPTFCENKHYLMCBKAKMTKYD 226  
 Db 227 DYETGFQNRPEQPDWYGHGLGGEDCAEFITDGRWMDVCRPRYRWCE-----TKLD 281  
 QY 227 Q 227  
 Db 282 K 282

## RESULT 27

14M5ER  
 IGF-1R receptor, low-affinity - mouse  
 N/Alternate names: Blast-2; CD23; Fc-epsilon-RII; lymphocyte IgE receptor  
 C/Species: Mus musculus (house mouse)  
 C/Date: 12-Feb-1993 #sequence\_revision 28-Oct-1994 #text\_change 22-Jun-1999  
 C/Accession: A43518; MUID:90171598; PMID:2137845  
 R/Bollnick, S.O.; Tronstine, M.L.; Yamashita, L.C.; Kehry, V.R.; Moore, K.W.  
 J. Immunol. 144, 1974-1982, 1990  
 A/Title: Isolation, characterization, and expression of cDNA clones encoding the mouse  
 A/Reference number: A43518; MUID:90171598; PMID:2137845  
 A/Accession: A43518  
 A/Molecule type: mRNA  
 A/Residues: 1-331 <GOL>  
 A/Cross-references: GB:U34163; NID:G193242; PIDN:AAA7603.1; PID:G309227  
 R/Bettler, B.; Hofeleter, H.; Rao, W.; Yokoyama, W.M.; Kitchner, F.; Conrad, D.R.  
 Proc. Natl. Acad. Sci. U.S.A. 86, 7566-7570, 1989  
 A/Title: Molecular structure and expression of the murine lymphocyte low-affinity recep

A:Reference number: A33840; MUID:90017519; PMID:2529542  
 A:Accession: A33840  
 A:Molecule type: mRNA  
 A:Residues: 1-331 <BRT>  
 A:Cross-references: GB:M99371; NID:G193245; PID:AAA74898.1; PID:G193246; GB:M27150  
 C:Comment: This receptor for the Fc portion of IgE is expressed in various hematopoietic FcB-cells.  
 C:Superfamily: Igs receptor II; C-type lectin homology  
 C:Keywords: B-cell; glycoprotein; immunoglobulin receptor; macrophage; tandem repeat; tr  
 F:1-25/Domain: intracellular #status predicted <INT>  
 F:14-22/Region: stop-transfer sequence  
 F:26-46/Domain: transmembrane #status predicted <TM>  
 F:47-33/Domain: extracellular #status predicted <EXT>  
 F:66-86/Region: 21-residue repeat  
 F:87-107/Region: 21-residue repeat  
 F:108-128/Region: 21-residue repeat  
 F:129-149/Region: 21-residue repeat  
 F:186-305/Domain: C-type lectin homology <LCH>  
 F:65,114/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 12.0%; Score 151; DB 1; Length 331;  
 Best Local Similarity 23.1%; Pred. No. 6.2e-06;  
 Matches 43; Conservative 39; Mismatches 66; Indels 38; Gaps 9;

QY 60 NYLQDE-----NENRTGT-----LQQLAKRFGQYVVKQSELKQTFKHKCPCDT 104  
 Db 137 NRIQDGLVNIKSLGINKERTSDLEKIQEVALMTEILIS-----KGTACNCPK 188  
 QY 105 NWRYYGDSQYGFPHNLTWESKQYCTDMNATLKIDNRN---IWEYIKARTLIRWVG 160  
 Db 189 NWLHFQKCYFGKSGKQWICARACSDLGRLVISHQKQDPLMHINKD---SWIG 245  
 QY 161 LSRQKSNVWFWKGEFVSSENFLEEDGKGNM--NCAVPH-NGKMPTEGNNHYL--- 214  
 Db 246 LQDLNMGGEFVMSDGSFPGVSNMNPGEHPNNGQSEDCVMNRGSGMDAFQ--KSLIDAM 303  
 QY 215 MCEKKA 220  
 Db 304 VCEQLA 309

## RESULT 28

NKR-P1 protein homolog Gene-40 - mouse  
 A:Alternate names: natural killer cell activation molecule; NK1.1 allciantigen  
 C:Species: Mus musculus (house mouse)  
 C:Date: 18-Jun-1993 #sequence\_revision 18-Nov-1994 #text\_change 24-Sep-1999  
 C:Accession: C46467; A46499  
 R:Giorda, R.; Trucco, M.  
 J. Immunol. 147, 1701-1708, 1991  
 A:Title: A family of genes selectively coexpressed in adherent lymphokine-activated kill  
 A:Reference number: A46467; MUID:91349596; PMID:1880421  
 A:Accession: C46467  
 A:Status: preliminary  
 A:Molecule type: mRNA  
 A:Residues: 1-220 <GLO>  
 A:Cross-references: GB:M77678; NID:G200062; PID:AAA39824.1; PID:G200063  
 A:Experimental source: NK cells; C57BL/7B  
 A>Note: sequence extracted from NCBI backbone (NCBIN:52382, NCBIPI:53383)  
 R:Ryan, J.C.; Turk, J.; Nienh, E.C.; Yokoyama, W.W.; Seaman, W.S.  
 J. Immunol. 149, 1631-1635, 1992  
 A:Title: Molecular cloning of the NK1.1 antigen, a member of the NKR-P1 family of natura  
 A:Reference number: A46499; MUID:92373004; PMID:1506685  
 A:Accession: A46499  
 A:Status: preliminary  
 A:Molecule type: mRNA  
 A:Residues: 1-86,90-220 <RYA>  
 A:Cross-references: GB:S43141; NID:G254094; PID:AAA23979.1; PID:G254095  
 A:Experimental source: C57BL/6J NK cells  
 A>Note: sequence extracted from NCBI backbone (NCBIN:111622, NCBIPI:111624)  
 C:Superfamily: natural killer cell receptor PI; C-type lectin homology  
 C:Keywords: transmembrane protein  
 F:91-207/Domain: C-type lectin homology <LCH>

Query Match 11.9%; Score 149.5; DB 2; Length 220;  
 Best Local Similarity 22.9%; Pred. No. 5.4e-06;  
 Matches 44; Conservative 43; Mismatches 78; Indels 27; Gaps 6;

QY 35 LIIILLCGVVVGVALMGISWQNRVLODENENRTGTLQQLAKRFGQYVVKQSELKQTF 94  
 Db 39 LALKSCAGILLVLTIGMSVLVRLVQKPSREK-----CCVFIOENLNKTV 87  
 QY 95 KGHKCPDNNWRYGDSQYGFPHNLTWESKQYCTDMNATLKIDN---RYIVYIK 150  
 Db 88 N---LECPDMLHRKCPHVQSVNTWEGADGCRKATLIIIDQSELRLDLSIK 143  
 QY 151 ARTLIRWVGLSRQKSNVWFWKGEFVSSENFLEEDGKGNMCAVPHNKMPTF 207  
 Db 144 EKNYSF-WIGLRFTLPDMNKMNGITFNQDVLTGTVENG---SCASILGDKVPES 198  
 QY 208 CENGYIMCERK 219  
 Db 199 CASDNRWICQKE 210

## RESULT 29

T-cell surface glycoprotein Vβ1/48 - mouse  
 A:Accession: A30573  
 C:Species: Mus musculus (house mouse)  
 C:Date: 18-Apr-1989 #sequence\_revision 18-Apr-1989 #text\_change 19-May 2000  
 C:Accession: A30573  
 R:Chan, P.Y.; Takei, E.  
 J. Immunol. 142, 1727-1736, 1989  
 A:Title: Molecular cloning and characterization of a novel murine T cell surface antigen  
 A:Reference number: A30573; MUID:89140367; PMID:2783949  
 A:Accession: A30573  
 A:Status: preliminary  
 A:Molecule type: mRNA  
 A:Residues: 1-262 <GHA>  
 C:Superfamily: natural killer cell receptor PI; C-type lectin homology  
 C:Keywords: glycoprotein; transmembrane protein

Query Match 11.9%; Score 149.5; DB 2; Length 262;  
 Best Local Similarity 21.5%; Pred. No. 6.5e-06;  
 Matches 52; Conservative 36; Mismatches 95; Indels 59; Gaps 9;

QY 27 SFMWRYVALTLLTLCGMVYGVVAGTWSWQCNLYODEENRTGTLQQLAKRFGQYVVK 86  
 Db 40 SFMWKTVILGIFPCLLVAVSLAI-----KIFQYDQKCEBFLNH--HNCSNMQS 92  
 QY 87 QSELKGFPGHKCPCD-----TWRYGDSQY 115  
 Db 93 DILVQDMLKNSIECDLLESINRDQNLNKTLYLDSIQHGRGDKYVWFCYGMKCY 152  
 QY 116 FPHNLTWESKQYCTDMNATLKIDNRNIVEYIKARTLII---RWGLSQKSNVW 170  
 Db 153 FVMDRKTWSGCKQACSSSLILKIDDEDELKPLQ---LVVPSDCWGLSDNNKKW 208  
 QY 171 KWEDG--SVISEWFEF-LEDGKGNMCAVPHNKGHPCEKHYTLMEERXAGMTKVPQ 227  
 Db 209 AWDNRPSTKALNTGKYNIRDG---GCMILSTRIDNKGNDGVFICIGK-----ELDK 259  
 QY 228 LP 229  
 Db 260 FP 261

## RESULT 30

T28141  
 C type lectin, B locus - chicken  
 C:Species: Gallus gallus (chicken)  
 C:Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 15-Oct-1999  
 C:Accession: T28141  
 R:Xilne, S.; Kaufman, U.; Beck, S.  
 Submitted to the EMBL Data Library, May 1998  
 A:Description: DNA sequencing and analysis of the chicken major histocompatibility comp

A:Reference number: Z20475  
 A:Accession: T28141  
 A>Status: preliminary; translated from GB/EMBL/DBJ  
 A:Molecule type: DNA  
 A:Residues: 1-156 <ML>  
 A:Cross-references: EMBL:U023516; NID:e1292539; PID:e1292545; PIDN:CAA18961.1  
 A:Experimental source: clone cbl2  
 C:Genetics:  
 A:Gene: Blec  
 A:Map position: 16  
 A:Introns: 17/1, 74/3, 110/2

Query Match 11.7%; Score 146; DB 2; Length 156;  
 Best Local Similarity 25.4%; Pred. No. 5e-06;  
 Matches 33; Conservative 27; Mismatches 62; Indels 8; Gaps 4;

QY 94 FKGH-KCSPCDTNRYYGDSYCGFFRNLTWEECKYCTDMATLTKIDNENVEY-IK 150  
 Db 20 FQHPQPAQCPFDITGRGKCYPSDESNWTSQNNCSALGASLAVPDSMEDISFMR 79  
 QY 151 ARTHLIRWVGLSRQKSNVWKEWEDSVISENMFEELEQCKGNMCAVFNKMKHPTPCEN 210  
 Db 80 HKGSSPHWVGLSRBEKHPWENVNSPLS-HFVQSDGL---CAVGDHGLSSHCST 134  
 QY 211 KHYLMCEKA 220  
 Db 135 RRMVCTKPA 144

RESULT 31  
 LNHD2A  
 A:asialoglycoprotein receptor H2a - human  
 N:Alternate names: hepatic lectin H2a  
 N:Contans: ASGPR; asialoglycoprotein receptor H2a; asialoglycoprotein receptor H2b  
 C:Species: Homo sapiens (man)  
 C>Date: 31-Mar-1998 #sequence revision 31-Mar-1998 #text change 10-Dec-1999  
 C:Accession: A25179; A39100; E39100; I37995; A49466; E49466; S14525  
 R:Splice, M.; Lodish, H.F.  
 Proc. Natl. Acad. Sci. U.S.A. 82, 6465-6469, 1985  
 A:Title: Sequence of a second human asialoglycoprotein receptor: conservation of two rec  
 A:Reference number: A25179; MUID:66016723; PMID:3863106  
 A:Accession: A25179  
 A:Molecule type: mRNA  
 A:Residues: 1-311 <SEI>  
 A:Cross-references: GB:M1025; NID:g179080; PIDN:AA59519.1; PID:g179081  
 R:IdetKremer, G.Z.; Lodish, H.F.  
 J. Biol. Chem. 266, 1237-1244, 1991  
 A:Title: An alternatively spliced miniclon alters the subcellular fate of the human asia

A:Reference number: A39100; MUID:91093236; PMID:1985943  
 A:Accession: A39100  
 A:Molecule type: DNA; mRNA  
 A:Residues: 69-99 <LED>  
 A:Cross-references: GB:M38420; NID:g184395  
 A:Accession: B39100  
 A:Molecule type: DNA; mRNA  
 A:Residues: 69-81, 87-99 <LE2>  
 A:Cross-references: GB:M38420; NID:g184395  
 R:Paletta, E.; Stockert, R.J.; Racevskis, J.  
 Hepatology 15, 395-402, 1992  
 A:Title: Differences in the abundance of variably spliced transcripts for the second asi  
 A:Reference number: I37995; MUID:92184202; PMID:1371992  
 A:Accession: I37995  
 A>Status: preliminary; translated from GB/EMBL/DBJ  
 A:Molecule type: mRNA  
 A:Residues: 1-23, 43-81, 87-311 <PAI>  
 A:Cross-references: EMBL:X55283; NID:g34354; PIDN:CAA38997.1; PID:g34355  
 J:Yuk, M.H.; Lodish, H.F.  
 J. Cell Biol. 123, 1735-1749, 1993  
 A:Title: Two pathways for the degradation of the H2 subunit of the asialoglycoprotein re  
 A:Reference number: A49466; MUID:94103329; PMID:8276894  
 A:Accession: A49466  
 A:Molecule type: protein

A:Residues: 78-98 <YUK>  
 A:Accession: B49466  
 A:Molecule type: protein  
 A:Residues: 87-98 <YU2>  
 C:Comment: The functioning ligand-binding unit of this receptor is thought to be at lea  
 C:Genetics:  
 A:Gene: CD3:ASGR2; L-H2  
 A:Cross-references: GB:118755; OMTM:108361  
 A:Map position: 17p13-17p11  
 C:Superfamily: hepatic lectin; C-type lectin homology  
 C:Keywords: alternative splicing; endocytosis; glycoprotein; lectin; liver; phosphorot  
 F:1-311/Product: asialoglycoprotein receptor H2a #status predicted <MUT>  
 F:1-81, 87-311/Product: asialoglycoprotein receptor H2b #status predicted <MUT2>  
 F:1-58/Domain: intracellular #status predicted <INT>  
 F:1-23, 43-81, 87-311/Product: asialoglycoprotein receptor H2c #status predicted <MUT3>  
 F:59-78/Domain: transmembrane #status predicted <TMW>  
 F:79-311/Domain: extracellular #status predicted <EXT>  
 F:177-300/Domain: C-type lectin homology (Asn) (covalent) #status predicted  
 F:102, 170, 305/Binding site: carbohydrate (Asn)

Query Match 11.6%; Score 146; DB 1; Length 311;  
 Best Local Similarity 26.1%; Pred. No. 1.6e-05;  
 Matches 40; Conservative 30; Mismatches 69; Indels 14; Gaps 5;

QY 82 QYVKGSE-KGTFEGHKCSFCDTNRYYGDSYCGFFRNLTWEECKYCTDMATLTKID 141  
 Db 158 RFVACQWELLHS-NGSQRCTCPVWVWVHGQSCYFHSKAKMAEAKYCCQLENNHLYVIN 216  
 QY 142 NRNIYERIKARHLIR-WVGLSRQKSNVWKEWEDSVISENMFEELEQCKGNMCAVFNKMKHPTPCEN 191  
 Db 217 SWEQKRIYQHTNFNFNWIIGLT--DSGSKWKNWDGDIRHNYKNAAVTPQDNMHGHBLGG 274  
 QY 192 NANCAYFH-NGKAPTECENKHYLMCEKAKMT 223  
 Db 275 SEDCEVQPDGRWMDPCLQVRYWVCEKRNAT 307

RESULT 32  
 LNRTL  
 A:hepatic lectin - rat  
 N:Alternate names: ASGP; asialoglycoprotein receptor  
 C:Species: Rattus norvegicus (Norway rat)  
 C>Date: 28-Feb-1996 #sequence revision 04-Dec-1996 #text change 22-Jun-1999  
 C:Accession: A92497; A94020; E94020; A54727; A03166  
 R:Jung, J.O.; Holland, E.C.; Drickamer, K.  
 J. Biol. Chem. 260, 12523-12527, 1985  
 A:Title: Characterization of the gene encoding the major rat liver asialoglycoprotein r  
 A:Reference number: A92497; MUID:86008335; PMID:2995379  
 A:Accession: A92497  
 A:Molecule type: DNA  
 A:Residues: 1-284 <LEU>  
 A:Cross-references: GB:K02817; NID:G206646; PIDN:AAA42037.1; PID:G206647  
 R:Holland, E.C.; Jung, J.O.; Drickamer, K.  
 Proc. Natl. Acad. Sci. U.S.A. 81, 7338-7342, 1984  
 A:Title: Rat liver asialoglycoprotein receptor lacks a cleavable NH-2-terminal signal s  
 A:Reference number: A94020; MUID:85063786; PMID:6095287  
 A:Accession: A94020  
 A:Molecule type: mRNA  
 A:Residues: 1-60, 'R', 62-210 <HOL>  
 A:Experimental source: clone 22; clone 1  
 A:Accession: B94020  
 A:Molecule type: mRNA  
 A:Residues: 92-284 <HOL>  
 A>Note: Clone 22 codes for a terminator at residue 210  
 R:Watts, C.  
 Biosci. Rep. 6, 527-534, 1986  
 A:Title: Isolation and expression of cDNA clones for a rat liver asialoglycoprotein rec  
 A:Reference number: A54727; MUID:87026895; PMID:2343599  
 A:Accession: A54727  
 A:Molecule type: mRNA  
 A:Residues: 12-284 <WAT>  
 A:Cross-references: GB:M21770; NID:G202985; PIDN:AAA40764.1; PID:G202988  
 A:Experimental source: liver

C:Comment: Two types of rat hepatic lectin have been identified, RLH-1 and RLH-2/3, having  
C:Comment: After removal of sialic acid moieties from the complex carbohydrate moieties  
C:Comment: The unusual orientation of this protein across the membrane is postulated to  
C:Keywords: C-type lectin homology

A:Accession: 23/1: 62/1: 94/1: 118/1: 147/1: 197/3: 233/2

C:Superfamily: hepatic lectin; C-type lectin homology

C:Keywords: endocytosis; glycoprotein; lectin; receptor; transmembrane protein

F:2-284/Product: hepatic lectin #status predicted <MAM>

F:2-39/Domain: intracellular #status predicted <INT>

F:40-60/Domain: transmembrane #status predicted <TM>

F:61-284/Domain: extracellular #status predicted <EXT>

F:153-276/Domain: C-type lectin homology <LCH>

F:15,76,146/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 11.5%; Score 145.5; DB 1; Length 284;

Best Local Similarity 25.6%; Pred. No. 1.6e-05;

Matches 44; Conservative 23; Mismatches 82; Indels 17; Gaps 6;

Db 115 LREDHSLHLHVQVLSVDRSLSCQMAALRGNSERIC--CPINWVEYBSCYVSSSVK 172

Qy 62 LQDENENRTGTLQOLAKRFQYVVKQSELEKTFKHKSPCDTWEYVGDSCYGFPRHNL 121

Db 122 TWESQYCTDMATLTKIDNRIVEXART-HLRWGLSKQKSNVWKMGDSVISE 180

Qy 173 PMTEADRYCQLENAHLVVTWSEORFVQOMGPIINTWIGLTDQ--NGPWKWDGTDY-E 229

Db 181 NMEFLEDDGK-----GNMNCAYF-HNGHGHDPFCNKHYLCERKAG 221

Qy 230 TGRKMRPQPDWYGHGAGGSDCAHFTTGDGIMNDVCRPRYRWCEITLG 231

Db 149053

RESULT 33

Ly-49G.2 antigen - mouse

N:Alternate names: Ly-49E

C:Species: Mus musculus (house mouse)

C:Date: 02-Jul-1996 #sequence\_revision 02-Jul-1996 #text\_change 01-Dec-2000

A:Accession: I49053; I49115

R:Smith, H.R.; Karlhofer, F.M.; Yokoyama, W.M.

J. Immunol. 153, 1068-1079, 1994

A:Title: Ly-49 multigene family expressed by IL-2-activated NK cells.

A:Reference number: I49049; MUID:94300068; PMID:8027540

A:Accession: I49053

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-267 <RES>

A:Cross-references: EMBL:U0094; NID:9533495; PIDN:AA50222.1; PID:9533496

R:Brennan, J.; Mager, D.; Jefferies, W.; Takei, F.

J. Exp. Med. 180, 2287-2295, 1994

A:Title: Expression of different members of the Ly-49 gene family defines distinct natu

A:Reference number: I49114; MUID:95053763; PMID:764501

A:Accession: I49115

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-43; 'Q', 45-267 <RES>

A:Cross-references: EMBL:U12890; NID:9602409; PIDN:AAA58703.1; PID:9602410

C:Gene: Ly49G.4

C:Superfamily: natural killer cell receptor F1; C-type lectin homology

Query Match 11.5%; Score 145; DB 2; Length 267;

Best Local Similarity 24.1%; Pred. No. 1.7e-05;

Matches 57; Conservative 42; Mismatches 85; Indels 50; Gaps 12;

Db 30 WRVMAILLILC--VGMVGVVAGVSWQRYV-----LQDE-- 65

Qy 43 WKIVVAGLGLLILVVALAATIFQSSQGHHEIFQNLCHDNKSPQSDVNLKDELL 102

Db 66 ----NENRGT--LQOLAKRFQYVVKQSELEKTFKHKSPCDTWEYVGDSCYGF 116

Qy 103 RNKSIIECRGNDLBSLSDQNRW--YSEETK-TFSDSSQGHGPFGEKYMFCGKCYE 158

Db 117 PHLNLTWESQYCTDMATLTKIDNRIVEXART-HLRWGLSKQKSNVWKMGDS 175

Db 159 NMDRTMSSCKQTQGISLKLIONEDLKLONLAPSDISWIGLSTYNNKKCMWIDN 218

Qy 176 --SVISENNFEF-LEDDKGNANCAVFNHGNHPTFCENHGYLCERKAGTVDQJP 229

Db 219 GPSKALNTTKYNIDG-----CWSLSKRLNNGODSKYIOLGCK-----RLDKFP 266

RESULT 34

Ly49c - mouse

C:Species: Mus musculus (house mouse)

C:Date: 02-Jul-1996 #sequence\_revision 02-Jul-1996 #text\_change 19-May-2000

A:Accession: I49058

R:Wong, S.; Freeman, J.D.; Kelleher, C.; Mager, D.; Takei, F.

J. Immunol. 147, 1417-1423, 1991

A:Title: Ly-49 multigene family: New members of a superfamily of type II membrane prote

A:Reference number: I49058; MUID:91332459; PMID:1869832

A:Accession: I49058

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-288 <RES>

A:Cross-references: EMBL:U0304; NID:9500643; PIDN:AAA19052.1; PID:9500644

C:Superfamily: natural killer cell receptor F1; C-type lectin homology

Query Match 11.4%; Score 144; DB 2; Length 288;

Best Local Similarity 21.0%; Pred. No. 2.3e-05;

Matches 49; Conservative 38; Mismatches 90; Indels 56; Gaps 8;

Db 30 WRVMAILLILC--VGMVGVVAGVSWQRYVQDENENRTGTLQOLAKRFQYVVKQ 87

Qy 43 WKIVVAGLGLLILVVALAATIFQSSQGHHEIFQNLCHDNKSPQSDVNLKDELL 102

Db 88 SELKTFKHKRSPC-----DNNRYVYGD 112

Qy 96 SSIMEEMRNKSSSEKALNDSLHYLNREQRCLARKTYVLDQSNKKGQVSGYWFCCGMK 155

Db 113 CYGFPRHNLTWESQYCTDMATLTKIDNRIVEXART-HLRWGLSKQKSNVWKMGDSVISE 171

Qy 156 CYTFMTDCKKNGCQICODVYVTLTKINDDELFLFSLQDRNYWISLTHRKSK---- 211

Db 172 WEDGVSISENMEFLEDDGKN-----MNCAYFNHGNHPTFCENHGYLCERK 219

Qy 212 EESQIGRPSK-LDSARNVPRKQCAVYSSTEDDCARHGCCEK 262

Db 149053

RESULT 35

A49707

C:Species: Oryctolagus cuniculus (domestic rabbit)

C:Date: 10-Sep-1999 #sequence\_revision 10-Sep-1999 #text\_change 10-Sep-1999

A:Accession: A49707

R:Jarneau, G.; Ancian, P.; Barthelin, J.; Lazdunski, M.

J. Biol. Chem. 269, 1575-1578, 1994

A:Title: Cloning and expression of a membrane receptor for secretory phospholipases A-2

A:Reference number: A49707; MUID:94124484; PMID:8294398

A:Accession: A49707

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-1458 <LTM>

A:Cross-references: GB:U03455; NID:9456375; PIDN:AA48402.1; PID:9456376

C:Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II r

C:Keywords: glycoprotein; receptor; skeletal muscle; tandem repeat; transmembrane prote

F:176-217/Domain: fibronectin type II repeat homology <2FI>

F:376-499/Domain: C-type lectin homology <LCH>

F:956-1094/Domain: C-type lectin homology <LCH2>

Query Match 11.4%; Score 143.5; DB 1; Length 1458;

Best Local Similarity 23.7%; Pred. No. 0.00015;

Matches 42; Conservative 32; Mismatches 82; Indels 21; Gaps 6;

Db 55 SYMGNYQDENENRTGTLQOLAKRFQYVVKQSELEKTFKHKSPCDTWEYVGDSCY 114



Db 333 SFMRBAM---RSRNCSTPIYTCCKTLNVDEIVEKDAWK-VYATDCPGRWAPYRNCY 388  
 QY 115 GFFRNLWESKQYCTDMATLTKIDNRNIVEYI-----KARTHLIEWGHSRQKS 166  
 Db 389 KLQEKETWNEALHSLSTSLIDIGSLAEVEFVTLTIGNNAST-----WIGLSSNTP 444  
 QY 167 NFWKWKEDSVSSENKFEFLD---GKGNMNCAYFHNGKH--PTCEKHYLMCEK 218  
 Db 445 PVSEFWSNGSSVIFPTMHTLEPOLFPNSQOLCVSAEQSGHWKVCMDCEETHYVCK 501

## RESULT 36

149052  
 Ly-49g.1 antigen - mouse  
 C/Species: Mus musculus (house mouse)  
 C/Date: 02-Jul-1996 #sequence\_revision 02-Jul-1996 #text\_change 19-May-2000  
 C/Accession: I49052  
 R/Smith, H.R.; Karhofer, F.M.; Yokoyama, W.Y.  
 J. Immunol. 153, 1068-1079, 1994  
 A>Title: Ly-49 multigene family expressed by IL-2-activated NK cells.  
 A/Reference number: I49049; MUID:94300068; PMID:8027540  
 A/Accession: I49052  
 A/Status: preliminary; translated from GB/EMBL/DBJ  
 A/Molecule type: mRNA  
 A/Residues: 1-280 <R88>  
 A/Cross-references: EMBL:U10093; NID:G533493; PIDN:AAA50221.1; PID:G533494  
 C/Superfamily: natural killer cell receptor p1; C-type lectin homology

Query Match 11.2%; Score 141.5; DB 2; Length 280;  
 Best Local Similarity 21.1%; Pred. No. 3.7e-05;  
 Matches 53; Conservative 45; Mismatches 80; Indels 65; Gaps 10;

QY 30 WRVVALILILIC-VGVVGLVALGMSVMQRY-----LODE-- 65  
 Db 43 WKTIIVACGILCPILVVALILITPQHSQCKELQETLNCNCSPTQSDVNLKDELL 102  
 QY 66 -----NENR-----TGTLQQLAKRQCQVVKQSEIKGTFKHKCSPC 102  
 Db 103 RNKSIIECPGNDLLESIRQDNRYSETKTFSDSGHTGVHERPISKAEGKRGF----- 157  
 QY 103 DTMNRYGDSQYGFRRNLWESKQYCTDMATLTKIDNRNIVEYI-KARTHLIEWGL 161  
 Db 158 EKYVFCGICQYTNMRKRTKWSGCKQTCQISSLSLITIDNDELKFTQNLAPSDISWIGL 217  
 QY 162 SRQKSNVYWKWEDG-SVISENMFEL-LEDGKGNMNCAYFHNGKHPTCEKHYLMCEK 218  
 Db 218 SYDNKKDDWVWIDGPEKALNTTKYVIRDGL-----CMSLKTGLDNGDDCKSVICTCGK 273  
 QY 219 KAGMTKVDQLP 229  
 Db 274 -----RUDKFP 279

## RESULT 37

T34115  
 hypothetical protein C25B8.4 - Caenorhabditis elegans  
 C/Species: Caenorhabditis elegans  
 C/Date: 29-Oct-1999 #sequence\_revision 29-Oct-1999 #text\_change 18-Feb-2000  
 C/Accession: T34115  
 R/Wilcox, L.  
 Submitted to the EMBL Data Library, December 1995  
 A/Reference number: Z21479  
 A/Accession: T34115  
 A/Status: preliminary; translated from GB/EMBL/DBJ  
 A/Molecule type: DNA  
 A/Residues: 1-262 <WIL>  
 A/Cross-references: EMBL:U15566; PIDN:AACT0872.1; GSPDB:GN00028; CESP:C25B8.4  
 A/Experimental source: strain Bristol N2; clone C25B8  
 C/Genetics:  
 A/Gene: CESP:C25B8.4  
 A/Map position: X  
 A/Introns: 74/1; 104/3; 150/3; 195/2

Query Match 11.2%; Score 141; DB 2; Length 262;  
 Best Local Similarity 22.4%; Pred. No. 3.8e-05;  
 Matches 53; Conservative 31; Mismatches 65; Indels 88; Gaps 11;

QY 29 WRVVALILILICGMV---VGLVALGTV-----SYMQRNYLDQENNRGT 72  
 Db 51 YFRFKVLLVLAAGFSTRQVLEFWSYKDFGTNAFTDISLDQRQHYHD---FPTGT 107  
 QY 73 LQQLAKRQCQVVKQSEIKGTFKHKCSPCDTMNRYGDSQYGFRRNLWESKQYCTDM 132  
 Db 108 -----CPDGWRESDSCYWFQHQSTAEKRCYE 138  
 QY 133 MNATLTKIDNRNIVEYIARHTL-----IKVGLSR---QKSNVYWKWEDSVISENMF 184  
 Db 139 KNATLFFVNSQD--EMDAVREHPQGTGTWIGLVRFTEFKSQAPINQTBGAVNPTLN 196  
 QY 185 FL-----EDGKGNM-NCA-----YHNGKHPTCEKHYLMCEK 218  
 Db 197 WLIRPYKPVSGMSALANCAHPSAALNWDASAVTYFP-----CSFKFYSICER 246

## RESULT 38

T28081  
 hypothetical protein ZK896.7 - Caenorhabditis elegans  
 C/Species: Caenorhabditis elegans  
 C/Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 29-Oct-1999  
 C/Accession: T28081  
 R/Barlow, K.  
 Submitted to the EMBL Data Library, November 1996  
 A/Reference number: Z20466  
 A/Accession: T28081  
 A/Status: preliminary; translated from GB/EMBL/DBJ  
 A/Molecule type: DNA  
 A/Residues: 1-380 <WIL>  
 A/Cross-references: EMBL:Z82288; PIDN:CAH03324.1; GSPDB:GN00022; CESP:ZK896.7  
 A/Experimental source: clone ZK896  
 C/Genetics:  
 A/Gene: CESP:ZK896.7  
 A/Map position: 4  
 A/Introns: 33/2; 72/1; 227/3; 240/3; 274/1; 328/3; 350/3

Query Match 11.1%; Score 140; DB 2; Length 380;  
 Best Local Similarity 29.5%; Pred. No. 7e-05;  
 Matches 33; Conservative 19; Mismatches 52; Indels 8; Gaps 3;

QY 107 RYVGDSCYGFRRNLWESKQYCTDMATLTKIDNRNIVEYI-KARTHLIR-----WV 159  
 Db 26 RFIQTRCYAFVSKKHTYNTAKEXCDHSGYSLATVDALINSPLASSALIEFGSNGQFWI 87  
 QY 160 GLSRQKSNVYWKWEDSVISENMFEL-LEDGKGNMNCAYFHNGKHPTCEK 211  
 Db 88 GLSRKRDYELEFWDDGTLIVSYTNFZAGFPNKKQFVAENVNRRWQ-TLAEKH 138

## RESULT 39

S48719  
 phospholipase A(2) receptor protein - mouse  
 C/Species: Mus musculus (house mouse)  
 C/Date: 07-May-1995 #sequence\_revision 21-Jul-1995 #text\_change 20-Jun-2000  
 C/Accession: S48719  
 R/Higashino, K.; Ishizaki, J.; Kishino, J.; Ohara, O.; Arita, H.  
 Eur. J. Biochem. 225, 375-382, 1994  
 A>Title: Structural comparison of phospholipase A(2)-binding regions in phospholipase-A  
 A/Reference number: S48719; MUID:95010128; PMID:7925459  
 A/Accession: S48719  
 A/Status: preliminary  
 A/Molecule type: mRNA  
 A/Residues: 1-1487 <HIG>  
 A/Cross-references: GB:D30779; NID:G1375042; PIDN:BA06443.1; PID:G691754  
 C/Superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II r  
 F/181-222/Domain: fibronectin type II repeat homology <2FI>  
 F/380-503/Domain: C-type lectin homology <LCH>

Query Match 11.0%; Score 139; DB 2; Length 1487;  
 Best Local Similarity 26.5%; Pred. No. 0.0004;  
 Matches 53; Conservative 34; Mismatches 69; Indels 44; Gaps 14;

QY 41 CAGNNGVGVVAGLGVSVKQRYNLTQDENENRTGLQALAKPQGVYK--QSELKATFGKH 97  
 DB 617 CV-VYRGSSLSIGRWEV-----KDCSPDK-----AMSLCKTPEVKIWEKTELEERWPFH 662

QY 98 KCSQCDTNRVYGG--SCYGFRR-----NLTWESQYQCTDMATLIK--INRIV 146  
 DB 663 ---PCYMDWESATVGLASCFYFHESEKYLKRSWEAEAFCEFAHLASFAHIEENFVN 719

QY 147 EYIKATHLIR----WGLSPKSNV--FKWEDGSVISENMF3--FLEGGKNNMCA- 196  
 DB 720 ELLSKRNWQDERPFGNIGENRNLNMGSMNSGSPVVSFLDNATFEDAR--NCAV 776

QY 197 YFNGKAPFPCENKHYLMC 216  
 DB 777 YKANKTLPSNCAKHEMIC 796

## RESULT 40

LNHUI  
 hepatic lectin H1 - human  
 N/Alternate names: asialoglycoprotein receptor H1 (ASGP-H1)  
 C/Species: Homo sapiens (man)  
 C/Date: 31-Mar-1988 #sequence\_revision 31-Mar-1988 #text\_change 22-Jun-1999  
 C/Accession: A22509  
 R/Spiess, M.; Schwartz, A.L.; Lodish, H.F.  
 J. Biol. Chem. 260, 1979-1982, 1985  
 A/Title: Sequence of human asialoglycoprotein receptor cDNA: an internal signal sequence  
 A/Reference number: A22509; MUID:85130911; PMID:2982798  
 A/Accession: A22509  
 A/Molecule type: mRNA  
 A/Residues: 1-231 <SP1>  
 A/Cross-references: GB:M10058; NID:g179078; PID:AAAS1785.1; PID:g179079  
 C/Comment: This receptor is expressed in mammals exclusively in hepatic parenchymal cell  
 C/Comment: By homology with the R1 receptor, the initiator Met is removed after translat  
 C/Comment: A cytoplasmic serine residue is phosphorylated.  
 C/Genetics:  
 A/Gene: GDB:ASGR1  
 A/Cross-references: GDB:118754; OMIM:108360  
 A/Map position: 17p13-17p11  
 C/Superfamily: hepatic lectin; C-type lectin homology  
 C/Keywords: endocytosis; glycoprotein; lectin; phosphoprotein; receptor; transmembrane p  
 F/2-291/Product: hepatic lectin H1 #status predicted <MAT>  
 F/2-40/Domain: intracellular #status predicted <INT>  
 F/41-59/Domain: transmembrane #status predicted <TM>  
 F/60-291/Domain: extracellular #status predicted <EXT>  
 F/154-277/Domain: C-type lectin homology <LCH>  
 F/79,147/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 11.0%; Score 138.5; DB 1; Length 251;  
 Best Local Similarity 22.3%; Pred. No. 7.1e-05;  
 Matches 60; Conservative 44; Mismatches 84; Indels 81; Gaps 15;

QY 19 LVSVPASSFWKXMAILLILCY-----GAVGVAL 51  
 DB 43 LLSLIG-----LSLLLVVVCYISGNSQLQELRGLEFRTSNFASAEADYKGLSTO 94

QY 52 G-----TWSVMONTYQDENENRTGLQALAKP-----CQYVVKSELEKGF 94  
 DB 95 GGNVGRKMSLSQLEKQ--KDLSEDSLSLHV-KQFVSDLRSLSCQ-----MAALQNG 148

QY 95 KGHKSPCTNMVYVYSGYGFRRHLTWESKQYCTDMATLIKIDNRIVYIKARH 154  
 DB 149 SERTC--CYNVWEHRSCTWFSRSKAMADNYCGLBDPAHLVVTWSBQKVFQ--H 203

QY 155 LI-----RWGLSPKSNVWKMEDGSVTS-----ENMFPLEDG-KGNMCAAFV-HV 200  
 DB 204 HIGPVNTWMLHDQ--NGPWKVDGTDYETGCKNWKPEQDDWYGHGLGGGDCALFTDD 261

QY 201 GKMHPTFCENKHYLMCERKAGTKVDLP 229  
 DB 262 GRWMDVVCQRPYRWGETS--LDKASQEP 288

## RESULT 41

JH0822  
 lymphocyte early activation antigen A1M/CD69 - human  
 C/Species: Homo sapiens (man)  
 C/Date: 30-Sep-1993 #sequence\_revision 20-Aug-1994 #text\_change 08-Oct-1999  
 C/Accession: JH0822; I56167; S60753  
 R/Lopez-Cabrera, M.; Santis, A.G.; Fernandez-Ruiz, E.; Blacher, R.; Esch, F.; Sanchez-Me  
 J. Exp. Med. 178, 537-547, 1993  
 A/Title: Molecular cloning, expression, and chromosomal localization of the human earl  
 A/Reference number: JH0822; MUID:93340630; PMID:8340758  
 A/Accession: JH0822  
 A/Molecule type: mRNA  
 A/Residues: 1-199 <LOP>  
 A/Cross-references: GB:222576; NID:g397938; PID:CAA80298.1; PID:g397939  
 A/Note: the authors translated the codon CAA for residue 110 as Glu  
 U. Immunol. 150, 4920-4927, 1993  
 A/Title: Expression cloning of the early activation antigen CD69, a type II integral me  
 A/Reference number: I56167; MUID:93287093; PMID:8496594  
 A/Accession: I56167  
 A/Status: translated from GB/EMBL/DBJ  
 A/Molecule type: mRNA  
 A/Residues: 1-199 <RES>  
 A/Cross-references: GB:107555; NID:g291897; PID:AA846359.1; PID:g291898  
 R/Santis, A.G.; Lopez-Cabrera, M.; Hamann, U.; Straus, M.; Sanchez-Madrid, F.  
 Eur. J. Immunol. 24, 1692-1697, 1994  
 A/Title: Structure of the gene coding for the human early lymphocyte activation antigen  
 A/Reference number: S60753; MUID:94298875; PMID:8026539  
 A/Accession: S60753  
 A/Status: preliminary  
 A/Molecule type: DNA  
 A/Residues: 1-199 <SAN>  
 A/Cross-references: EMBL:230426; NID:g525242; PID:CAA83017.1; PID:g558352  
 C/Comment: This protein is the earliest inducible cell surface glycoprotein expressed in  
 C/Genetics:  
 A/Gene: GDB:CD69  
 A/Cross-references: GDB:132925; OMIM:107273  
 A/Map position: 12p13-12p12  
 C/Superfamily: C-type lectin homology  
 C/Keywords: glycoprotein; phosphoprotein; receptor; transmembrane protein  
 F/39-64/Domain: transmembrane #status predicted <TM>  
 F/65-194/Domain: C-type lectin homology <LCH>  
 F/18,30/Binding site: phosphate (Thr) (covalent) (by protein kinase C) #status predict  
 F/31/Binding site: phosphate (Thr) (covalent) (by casein kinase II) #status predicted  
 F/166/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 10.9%; Score 137.5; DB 2; Length 199;  
 Best Local Similarity 26.0%; Pred. No. 5.7e-05;  
 Matches 32; Conservative 21; Mismatches 57; Indels 11; Gaps 5;

QY 100 SEDDTNRVYVYSGYGFRRHLTWESKQYCTDMATLIKIDNRIVYIK--ARTH 155  
 DB 83 SSCSDWVGYQKCYEISTVYKRSWTSACNACSEHGATLVIVISEKXNNLTKAYAGREEH- 141

QY 156 IRWVGLSPKSNVWKMEDGSVTSNMFPEFLEDGKNNCAVFNHNGKMFTECNKHYLM 215  
 DB 142 --WVGLAKPEKGRH-WKMSNGKEFN-NMFV-----TSDPKCVPLKITEVSSMCEKXVLT 193

QY 216 CER 218  
 DB 194 CNK 196

RESULT 42  
 I55686  
 LGU-1 - mouse

C:Species: Mus sp. (mouse)  
 C>Date: 26-Jul-1996 #sequence\_revision 26-Jul-1996 #text\_change 19-May-2000  
 C/Accession: I55686  
 R/Mason, L.H.; Ortaldo, J.R.; Young, H.A.; Kumar, V.; Bennett, M.; Anderson, S.K.  
 J. Exp. Med. 182, 293-303, 1995  
 A/Title: Cloning and functional characteristics of murine large granular lymphocyte-1:  
 A/Reference number: I55686; MUID:95355829; PMID:7629495  
 A/Accession: I55686  
 A/Status: Preliminary; translated from GB/EMBL/DBJ  
 A/Molecule type: mRNA  
 A/Residues: 1-267 <RES>  
 A/Cross-references: GB:S78693; NID:91041888; PIND:AA60707.1; PID:91041889  
 C/Genetics:  
 A/Gene: LGL-1  
 C/Superfamily: natural killer cell receptor P1; C-type lectin homology

Query Match 10.9%; Score 137; DB 2; Length 267;  
 Best Local Similarity 23.3%; Pred. No. 5,8e-05;  
 Matches 56; Conservative 40; Mismatches 88; Indels 56; Gaps 12;

QY 30 WRVALLILLC-VGVVGVVAVLGVSMQPNY-----LQDR-- 65  
 DB 43 WKLVIAAGIFCFLLVVALATIFGHIOQHLEJFTINCHNGSTTQSDVHLKDBLL 102  
 QY 66 ----NENRTG----TLQDLAKRFQGVVVKSELKGFPG--HKSPCDTNNRYGGSC 113  
 DB 103 RKKSIKCPNDLISLNRDQKRW-----YSETK-TPSDSCQTGAGFEKWFQYGLKC 155  
 QY 114 YGPFENLWTESSQYQYCDMMATLKTNNRIVEYK-ARHLIRWVGLSQKSNVWKW 172  
 DB 156 YPFMDKRTKSGCQKQTOISLSLTKIDNDELFLQDLAPSDLSWIGFSDNKKKQWAW 215  
 QY 173 EDG--SVISENMFEP-LEDGKNNMCAYFHNKKNHPTFCEKHYLNCERXAGMTKQDLP 229  
 DB 216 IDNGPSKXLAINTKYNIRDG-----CWSLSKTRLDNDGCGSYICTGK-----RLDQFP 266

## RESULT 43

S34198  
 IGR\_Fc receptor II, low-affinity - rat  
 N/Alternate names: CD23; lymphocyte IGE receptor  
 C/Species: Rattus norvegicus (Norway rat)  
 C/Date: 06-Jan-1995 #sequence\_revision 06-Jan-1995 #text\_change 22-Jun-1999  
 C/Accession: S34198  
 R/Flores-Romo, L.; Shiehl, J.; Humbert, Y.; Graber, P.; Aubry, C.P.; Gauchat, J.F.; Ayal  
 Submitted to the EMBL Data Library, June 1993  
 A/Description: Inhibition of an in vivo antigen-specific IGE response by antibodies to C  
 A/Reference number: S34198  
 A/Accession: S34198  
 A/Molecule type: mRNA  
 A/Residues: 1-309 <FLO>  
 A/Cross-references: EMBL:X73579; NID:G313672; PIND:CA51981.1; PID:G313673  
 C/Superfamily: IGE receptor II; C-type lectin homology  
 C/Keywords: B-cell; glycoprotein; immunoglobulin receptor; macrophage; tandem repeat; ty  
 F/1-25/Domain: intracellular #status predicted <INT>  
 F/14-22/Region: stop-transfer sequence  
 F/24-46/Domain: transmembrane #status predicted <TM>  
 F/47-309/Domain: extracellular #status predicted <EXT>  
 F/126-309/Product: soluble IGE-binding factor (29K) #status predicted <IGL>  
 F/149-309/Product: soluble IGE-binding factor (29K) #status predicted <IGL>  
 F/164-283/Domain: C-type lectin homology <LCH>  
 F/192-283,260-274/Disulfide bonds: #status predicted

Query Match 10.9%; Score 137; DB 1; Length 309;  
 Best Local Similarity 19.5%; Pred. No. 0.0001;  
 Matches 48; Conservative 49; Mismatches 83; Indels 66; Gaps 11;

QY 1 MODEDYITLNTKTRPALVSPASFWRRVALLILLCVGMVGLVAGVSWYQR- 59  
 DB 82 MGSQDSQLQNTLWEDLDLHNVKSONS-----ELSQDL 114  
 QY 60 NYLQD-----NENRTG-----TLQDLAKRFQGVVVKSELKGFPGKHKQSPCDT 104

DB 115 NTLQEDLVNVKSQLNFKRAASDSLKLEKQEEVANKMIELMS-----KQTAQNVCPK 166  
 QY 105 NRRYYGDSQYGFPHNLTWESQYCTDMATLKTIDNRN-----IVEYIKRTHIRVWG 160  
 DB 167 DWLHFQKQCYFEGBSKCMIAKFTCSLBSRLVSHQKQDPLMHQINKK--SWIG 223  
 QY 161 LSRQSNVWAKWEDQSVISENMFPLEDGKNN--NCAVYFH-NGMHPTFCENKHYL-- 214  
 DB 224 LQDANMEGEFVWPDSPVGYSNNMNPGBENNGQGHDCVYMGGSGQWDAFC--ISYLDAN 281  
 QY 215 MCERKA 220  
 DB 282 VCEQLA 287

## RESULT 44

scavenger receptor with C-type lectin type I - human  
 C/Species: Homo sapiens (man)  
 C/Date: 30-Jun-2001 #sequence\_revision 30-Jun-2001 #text\_change 30-Jun-2001  
 C/Accession: J07595  
 R/Nakamura, K.; Funakoshi, H.; Miyamoto, K.; Tokunaga, F.; Nakamura, T.  
 Biochem. Biophys. Res. Commun. 280, 1028-1035, 2001  
 A/Title: Molecular cloning and functional characterization of a human scavenger recepto  
 A/Reference number: J07595; MUID:21092718; PMID:11162630  
 A/Contents: Placenta  
 A/Accession: J07595  
 A/Molecule type: mRNA  
 A/Residues: 1-742 <NAK>  
 A/Cross-references: DBJ:AB038518  
 C/Comment: This receptor, a member of the scavenger receptor family, belonging to the t  
 important role in host defense. It forms a trimer and plays a role in recognizing infec  
 C/Genetics:  
 A/Gene: scrl-1  
 A/Map position: 18p11.32  
 C/Keywords: coiled coil; glycoprotein; transmembrane protein  
 F/1-39/Domain: cytosolic (amino-terminus) #status predicted <CYT>  
 F/16-19/Region: internalization signal YKRF  
 F/40-56/Domain: transmembrane #status predicted <TM>  
 F/57-112/Domain: extracellular #status predicted <EXT>  
 F/113-335/Domain: coiled coil #status predicted <COC>  
 F/369-584/Region: serine/threonine-rich #status predicted  
 F/443-589/Domain: collagen-like #status predicted <COL>  
 F/667-732/Domain: C-type lectin/carbohydrate recognition domain #status predicted <CRD>

Query Match 10.8%; Score 136.5; DB 2; Length 742;  
 Best Local Similarity 27.1%; Pred. No. 0.00011;  
 Matches 35; Conservative 28; Mismatches 51; Indels 15; Gaps 5;

QY 102 CDTNMEYGDSCGFFRHLTWESQYCTDMATLKTIDNRNIVEYKAR-----THLI 156  
 DB 607 CPBHWKNEFDKCYFVEKEIFEDALFCEDESSHLVFNTRREQQMIKKQWGRSH-- 664  
 QY 157 RHWGSLRQKSNVWAKWEDG-SVISENMFPLEDGKNN-----MNCA-YHNKGMHPTPC 209  
 DB 665 -MIGLDSREHNMKMLDGTSPDYKWKAGQPDWNGHGHPGDCAGLIYAGQWDFQCH 723  
 QY 210 NNGHYLMCEK 218  
 DB 724 DVNMFCEK 732

## RESULT 45

J07134  
 Agglutinin alpha chain precursor - sharp-nosed viper  
 N/Alternate names: fibrinogenolytic venom protein  
 C/Species: Agkistrodon acutus (sharp-nosed viper)  
 C/Date: 04-Mar-2000 #sequence\_revision 04-Mar-2000 #text\_change 24-Oct-2000  
 C/Accession: J07134; PC07037  
 R/Cheng, X.; Qian, Y.; Jiu, Q.; Li, B.X.Y.; Zhang, M.; Liu, J.  
 Biochem. Biophys. Res. Commun. 265, 530-535, 1999  
 A/Title: Purification, characterization, and cDNA cloning of a new fibrinogenolytic veno  
 A/Reference number: J07134; MUID:20025379; PMID:10556903

A:Accession: J07134  
 A:Molecule type: mRNA  
 A:Residues: 1-152 <CHS>  
 A:Cross-references: GB:AF176420  
 A:Experimental source: venom gland  
 A:Accession: PC7037  
 A:Molecule type: protein  
 A:Residues: 24-53;84-86;87-94;125-136;137-152 <CH2>  
 C:Superfamily: tetranectin; C-type lectin homology  
 C:Keywords: disulfide bond; heterodimer; venom  
 F:1-23/Domain: signal sequence #status predicted <SIG>  
 F:24-152/Product: agk:sactacin alpha chain #status experimental <MAT>

Query Match 10.8%; Score 136; DB 2; Length 152;  
 Best Local Similarity 27.9%; Pred. No. 5.70e-05;  
 Matches 41; Conservative 21; Mismatches 53; Indels 32; Gaps 10;

QY 90 LKGFHKHCKSPDINWYDSCYGFRRHNTWESKQYCTDM--NATLTKINRIVE 147  
 DB 18 LSGT---AADSSGWSYEGHCYKFKQSKTWADASFCTKQVNGHIVSISSGAD 72  
 QY 148 YIKARTHLIR-----WVGLSRQKSNVW--KWDGSGVIS--ENMFELDGKGMN 194  
 DB 73 FV---AHIIAQKIKSAKHWWIGLRAPQKQKQCSLEMSDGSISYENWIR--EESK--K 124  
 QY 195 CAIFH--NG--RMEPTFCENKHYLMCE 217  
 DB 125 CLGVHIEYGFHKMENFYCEQDDPVCE 151

RESULT 46  
 T14274  
 versican precursor, splice form V2 - bovine  
 C:Species: Bos primigenius taurus (cattle)  
 C:Date: 20-Sep-1999 #sequence\_revision 20-Sep-1999 #text\_change 05-May-2000  
 C:Accession: T14274  
 R:Schmalfeldt, M.; Dours-Zimmermann, M.T.; Winterhalter, K.H.; Zimmermann, D.R.  
 J. Biol. Chem. 273, 15758-15764, 1998  
 A:Title: Versican V2 is a major extracellular matrix component of the mature bovine brain  
 A:Reference number: Z17954; MUID:98288320; PMID:9624174  
 A:Accession: T14274  
 A:Status: preliminary; translated from GB/EMBL/DBJ  
 A:Molecule type: mRNA  
 A:Residues: 1-1643 <SCH>  
 A:Cross-references: EMBL:AF060458; NID:93253303; PID:93253304; FIDN:AAC24360.1  
 A:Experimental source: Brain  
 C:Keywords: glycoprotein  
 F:1-20/Domain: signal sequence #status predicted <SIG>  
 F:21-1643/Product: versican, splice form V2 #status predicted <MAT>  
 F:57,331,352,817,965,1017,1333,1616,1626/Binding site: carbohydrate (asn) (covalent) #st

Query Match 10.7%; Score 135; DB 2; Length 1643;  
 Best Local Similarity 24.6%; Pred. No. 0.001;  
 Matches 33; Conservative 22; Mismatches 70; Indels 8; Gaps 3;

QY 102 CDTNWRYYGDSYGFRRHNTWESKQYCTDMNATLTKIDNENVEYIKARTHLIRWGL 161  
 DB 1416 CDYGMHFKQGCYKFAHRTWDARERGLQGAHLTSLISHEQMFVNRVGHDIQWIGL 1475  
 QY 162 SRQKSNVWVWEDGSGVIS--ENM-----FEFLDGKGMNCAVFNKGMHPTFCENKHYLM 215  
 DB 1476 NDGMFEHDFRWTDGSLQYENWRPNQDPSPFSFGEDCVIIMHENGQNDVPC--NYHLT 1533  
 QY 216 CERKAGTKVDQLP 229  
 DB 1534 YTCCKGTVAAGQRP 1547

RESULT 47  
 T42389  
 versican precursor, splice form V0 - bovine  
 A:Alternate names: chondroitin sulfate proteoglycan  
 C:Species: Bos primigenius taurus (cattle)

C:Date: 03-Dec-1999 #sequence\_revision 03-Dec-1999 #text\_change 05-May-2000  
 C:Accession: T42389  
 R:Schmalfeldt, M.; Dours-Zimmermann, M.T.; Winterhalter, K.H.; Zimmermann, D.R.  
 J. Biol. Chem. 273, 15758-15764, 1998  
 A:Title: Versican V2 is a major extracellular matrix component of the mature bovine brain  
 A:Reference number: Z17954; MUID:98288320; PMID:9624174  
 A:Accession: T42389  
 A:Status: preliminary; translated from GB/EMBL/DBJ  
 A:Molecule type: mRNA  
 A:Residues: 1-3381 <SCH>  
 A:Cross-references: EMBL:AF060456; NID:93253299; PID:93253300; FIDN:AAC24358.1  
 C:Superfamily: chicken chondroitin sulfate proteoglycan; pg-M core protein; C-type lectin  
 C:Keywords: chondroitin sulfate proteoglycan; extracellular matrix; glycoprotein  
 F:1-33/Domain: signal sequence #status predicted <SIG>  
 F:21-3381/Product: versican, splice form V0 #status predicted <MAT>  
 F:57,331,352,817,965,1017,1333,1437,1463,1653,1974,2045,2074,2103,2263,2290,2356,24

Query Match 10.7%; Score 135; DB 2; Length 3381;  
 Best Local Similarity 24.6%; Pred. No. 0.0023;  
 Matches 33; Conservative 23; Mismatches 70; Indels 8; Gaps 3;

QY 102 CDTNWRYYGDSYGFRRHNTWESKQYCTDMNATLTKIDNENVEYIKARTHLIRWGL 161  
 DB 3154 CDYGMHFKQGCYKFAHRTWDARERGLQGAHLTSLISHEQMFVNRVGHDIQWIGL 3213  
 QY 162 SRQKSNVWVWEDGSGVIS--ENM-----FEFLDGKGMNCAVFNKGMHPTFCENKHYLM 215  
 DB 3214 NDGMFEHDFRWTDGSLQYENWRPNQDPSPFSFGEDCVIIMHENGQNDVPC--NYHLT 3271  
 QY 216 CERKAGTKVDQLP 229  
 DB 3272 YTCCKGTVAAGQRP 3285

RESULT 48  
 A55535  
 versican precursor - mouse  
 N:Alternate names: chondroitin sulfate proteoglycan 2; chondroitin sulfate proteoglycan  
 versican  
 C:Species: Mus musculus (house mouse)  
 C:Date: 10-Sep-1999 #sequence\_revision 10-Sep-1999 #text\_change 10-Sep-1999  
 C:Accession: A55535  
 R:Ito, K.; Shimomura, T.; Zako, M.; Ujita, M.; Kikate, K.  
 J. Biol. Chem. 270, 958-965, 1995  
 A:Title: Multiple forms of mouse PG-M, a large chondroitin sulfate proteoglycan generated  
 A:Reference number: A55535; MUID:95122551; PMID:7822336  
 A:Accession: A55535  
 A:Status: preliminary; translated from GB/EMBL/DBJ  
 A:Molecule type: mRNA  
 A:Residues: 1-2397 <RBS>  
 A:Cross-references: GB:D16263; NID:9862460; FIDN:BAA03796.1; PID:9862461  
 C:Superfamily: versican; C-type lectin homology; complement factor H repeat homology; E  
 F:1-20/Domain: signal sequence #status predicted <SIG>  
 F:21-1654/Domain: versican #status predicted <MAT>  
 F:167-244/Domain: link protein repeat homology <LNK1>  
 F:265-346/Domain: link protein repeat homology <LNK2>  
 F:2095-2126/Domain: EGF homology <EGF>  
 F:2133-2164/Domain: EGF homology <EGF2>  
 F:2171-2291/Domain: C-type lectin homology <LCH>  
 F:2298-2354/Domain: complement factor H repeat homology <FHD>

Query Match 10.6%; Score 134; DB 2; Length 2397;  
 Best Local Similarity 24.6%; Pred. No. 0.0019;  
 Matches 33; Conservative 23; Mismatches 70; Indels 9; Gaps 3;

QY 102 CDTNWRYYGDSYGFRRHNTWESKQYCTDMNATLTKIDNENVEYIKARTHLIRWGL 161  
 DB 2171 CDYGMHFKQGCYKFAHRTWDARERGLQGAHLTSLISHEQMFVNRVGHDIQWIGL 2230  
 QY 162 SRQKSNVWVWEDGSGVIS--ENM-----FEFLDGKGMNCAVFNKGMHPTFCENKHYLM 215  
 DB 2231 NDGMFEHDFRWTDGSLQYENWRPNQDPSPFSAGEDCVIIMHENGQNDVPC--NYHLT 2286

QY 216CERKAGMTXVDLP 229  
DB 2289 YTCRKGTVACGQDP 2302

RESULT 49  
A60979  
Versican precursor - human  
N/Alternate names: chondroitin sulfate proteoglycan 2; chondroitin sulfate proteoglycan  
N/Contains: glial hyaluronate-binding protein  
C/Species: Homo sapiens (man)  
C/Date: 10-Sep-1999 #sequence revision 10-Sep-1999 #text change 19-Jan-2001  
C/Accession: S06014; S43921; A60979; A30358; A29348; A45131; I54179  
R/Zimmermann, D.R.; Ruoslahti, E.  
EMBO J. 8, 2975-2981, 1989

A/Title: Multiple domains of the large fibroblast proteoglycan, versican.  
A/Reference number: S06014; MUID:90059882; PMID:2583089  
A/Accession: S06014  
A/Molecule type: mRNA  
A/Residues: 1-2409 <ZIM>  
A/Cross-references: GB:X55966; NID:937662; PION:CAA34128.1; PID:937663  
R/Yao, L.Y.; Moody, C.; Schenheerr, E.; Wight, T.N.; Sandell, L.J.  
Matrix Biol. 14, 213-225, 1994

A/Title: Identification of the proteoglycan versican in aorta and smooth muscle cells by  
A/Reference number: S43921, MUID:95005762; PMID:7921538  
A/Accession: S43921  
A/Molecule type: mRNA  
A/Residues: 208-440;1094-1385;1910-2246 <YAO>  
R/Bignami, A.; Lane, W.S.; Andrews, D.; Dahl, D.  
Brain Res. Bull. 22, 67-70, 1989

A/Title: Structural similarity of hyaluronate binding proteins in brain and cartilage.  
A/Reference number: A60979; MUID:89229983; PMID:2469524  
A/Accession: A60979  
A/Molecule type: protein  
A/Residues: 171-210;289-303 <BIG>  
R/Perides, G.; Lane, W.S.; Andrews, D.; Dahl, D.; Bignami, A.  
J. Biol. Chem. 264, 5981-5987, 1989

A/Title: Isolation and partial characterization of a glial hyaluronate-binding protein.  
A/Reference number: A30358; MUID:89174663; PMID:2466833  
A/Accession: A30358  
A/Molecule type: protein  
A/Residues: 24-50;80-87,'D',89-119;128-155;167-218;229-259,'IR';261-268;277-283,'G',285-  
R/Krusus, T.; Gehlsen, K.R.; Ruoslahti, E.  
J. Biol. Chem. 262, 13120-13125, 1987

A/Title: A fibroblast chondroitin sulfate proteoglycan core protein contains lectin-like  
A/Reference number: A29348; MUID:88007514; PMID:2820954  
A/Accession: A29348  
A/Molecule type: mRNA  
A/Residues: 1725,'V',1727-2409 <KRU>  
A/Cross-references: GB:J02814  
R/Perides, G.; Rahemtulla, F.; Lane, W.S.; Aher, R.A.; Bignami, A.  
J. Biol. Chem. 267, 23883-23887, 1992

A/Title: Isolation of a large aggregating proteoglycan from human brain.  
A/Reference number: A45131; MUID:93054750; PMID:1429726  
A/Contents: brain  
A/Accession: A45131  
A/Molecule type: protein  
A/Residues: 21-22,'X',24-37 <PE2>  
A/Experimental source: Brain  
A/Note: Sequence extracted from NCBI backbone (NCBI:118884)  
R/Itozo, R.V.; Naso, M.F.; Cannizzaro, L.A.; Wasmuth, J.C.; McPherson, J.D.  
Genomics 14, 845-851, 1992

A/Title: Mapping of the versican proteoglycan gene (CSG2) to the long arm of human chr6  
A/Reference number: I54179; MUID:93122792; PMID:1478664  
A/Accession: I54179  
A/Status: translated from GB/EMBL/DBJ  
A/Molecule type: DNA  
A/Residues: 251-347 <RMS>  
A/Cross-references: GB:SS24488; NID:6263313; PION:AAB24878.1; PID:9263314  
C/Genetics:  
A/Gene: GDB:CSPG2  
A/Cross-references: GDB:127873; OMIM:118661

```

A:Map position: 5412-5414
C:Superfamily: versican; C-type lectin homology; complement factor H repeat homology; E
F:1-20/Domain: signal sequence #status predicted <SIG>
F:21-2409/Product: proteoglycan 24X core protein #status predicted <MAT>
F:167-244/Domain: link protein repeat homology <LNK1>
F:265-346/Domain: link protein repeat homology <LNK2>
F:559-1654/Domain: chondroitin sulfate attachment #status predicted <GAG>
F:2144-2137/Domain: BGP homology <EG1>
F:2106-2175/Domain: BGP homology <EG2>
F:2182-2302/Domain: C-type lectin homology <LCH>
F:2309-2365/Domain: complement factor H repeat homology <FHD>

Query Match
Best Local Similarity 10.6%; Score 134; DB 1; Length 2409;
Matches 33; Conservative 23; Mismatches 70; Indels 8; Gaps 3;

QY 102 CDTNMRYGDSQCYGFRRNLTWESKQYCTDMNATLTKTDNRNIVAYIKARFHLIRVGL 161
Db 2182 CDYGMHKGQGCYKFAARR:WDAERBERLQGAHITSLSHEDQFVNVRVGHYQWIGL 2241
QY 162 SRQSNVEWKKEDGVSIS-ENN-----FEFLDGKNNMCAYFHNKMHPTFCENKHYLM 215
Db 2242 NDRMFEDHF3MTDSTLQYENWRPNQPDFSFAGSDCVIITWENQGMNDVPC-ANHLT 2259
QY 216 CERKAGMTKVDLP 229
Db 2300 YTCCKGTIVACQPP 2313

RESULT 50
T42710
manose receptor, macrophage - mouse
N:Alternate names: lambda lectin; phospholipase A2 receptor
C:Species: Mus musculus (house mouse)
C:Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 09-Jun-2000
C:Accession: T42710
R:Wu, K.; Yuan, J.; Lasky, L.A.
J. Biol. Chem. 271, 21323-21330, 1996
A:Title: Characterization of a novel member of the macrophage manose receptor type C l
A:Reference number: Z22235; MUID:96355501; PMID:8702911
A:Accession: T42710
A:/status: preliminary; translated from GB/EMBL/DBJ
A:/molecule type: mRNA
A:/Residues: 1-1479 <WU>
A:/Cross-references: EMBL:U66734; NID:g1336073; PID:g1336074; PIDN:AAC52729.1
C:/superfamily: phospholipase A2 receptor; C-type lectin homology; fibronectin type II r
C:/keywords: membrane protein; receptor
F:186-227/Domain: fibronectin type II repeat homology <2FR>

Query Match
Best Local Similarity 10.5%; Score 132.5; DB 2; Length 1479;
Matches 43; Conservative 27; Mismatches 57; Indels 55; Gaps 7;

QY 85 VKQSELKGTFFKGKCS-----PCTNMRYGDSQCYGF 116
Db 336 VIRTESSGGMQNHDCSIALPYVCKKPNATVEPIQDPKMTNVKYECDPSMNP:FQCHCYRL 395
QY 117 FEHNLTWESKQYCTDMNATLTKTDNRNIVAYIKARFHLIR-----WVGLSRQSNVEW 170
Db 396 QAKESQWQSKRACLRGGDLSTHSMALDELFT--TKQIKQVEVEELWIGNDLKLQWNF 452
QY 171 KNEDESVIS-----ENMFELDGKNNMCAYFHNKMHPTFCENKHYLMCRK 219
Db 453 EWSDDSLVSTFTMHFFPRNPRDSDLED-----CVTIWGEGRKNDSPCQSLPSIC-KK 505
QY 220 AG 221
Db 506 AG 507

Search completed: December 3, 2003, 08:47:53
Job time : 24 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: December 3, 2003, 08:43:17 ; Search time 17 Seconds

(without alignments)  
633.477 Million cell updates/sec

Title: US-09-903-190-97

Perfect score: 1261

Sequence: 1 MODEBGTITNITKTKKALV.....NKHYLMCEKRAKMTKVDQLP 229

Scoring table:

BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 127863 segs, 47026705 residues

Total number of hits satisfying chosen parameters: 127863

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

Database : SwissProt\_41:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	212.5	16.9	179	1	Q6M29 macaca mla
2	211.5	16.8	216	1	P26718 homo sapien
3	210	16.7	216	1	Q6M2718 macaca mla
4	204	16.2	301	1	P08290 rattus norv
5	200.5	15.9	301	1	P24721 mus musculu
6	195.5	15.5	179	1	Q13241 homo sapien
7	194.5	15.4	123	1	Q6M241 pan troglod
8	187	14.8	223	1	P27471 rattus norv
9	174.5	13.8	207	1	P02707 gallus gall
10	174	13.8	233	1	P26715 homo sapien
11	170.5	13.5	223	1	Q6M653 mus musculu
12	167.5	13.3	266	1	Q6M651 pan troglod
13	167	13.2	233	1	Q6M653 mus musculu
14	166	13.2	233	1	Q6M651 pan troglod
15	165.5	13.1	263	1	Q6M651 pan troglod
16	165	13.1	231	1	Q6M651 pan troglod
17	162	12.8	231	1	Q6M651 pan troglod
18	160.5	12.7	266	1	Q6M651 pan troglod
19	160.5	12.7	266	1	Q6M651 pan troglod
20	157.5	12.5	266	1	Q6M651 pan troglod
21	157.5	12.5	266	1	Q6M651 pan troglod
22	156	12.4	227	1	Q6M651 pan troglod
23	155	12.3	199	1	Q6M651 pan troglod
24	151.5	12.0	240	1	Q6M651 pan troglod
25	151.5	12.0	266	1	Q6M651 pan troglod
26	151	12.0	331	1	Q6M651 pan troglod
27	149.5	11.9	220	1	Q6M651 pan troglod
28	149.5	11.9	262	1	Q6M651 pan troglod
29	149	11.8	283	1	Q6M651 pan troglod
30	148.5	11.8	133	1	Q6M651 pan troglod
31	146	11.6	311	1	Q6M651 pan troglod
32	145.5	11.5	283	1	Q6M651 pan troglod
33	144	11.4	288	1	Q6M651 pan troglod

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35	141.5	11.2	280	1	P26718 homo sapien
36	140.5	11.1	240	1	P26718 homo sapien
37	138.5	11.0	290	1	P26718 homo sapien
38	138	10.9	548	1	P26718 homo sapien
39	137.5	10.9	199	1	P26718 homo sapien
40	135	10.7	3381	1	P26718 homo sapien
41	134	10.6	2738	1	P26718 homo sapien
42	134	10.6	3358	1	P26718 homo sapien
43	134	10.6	3396	1	P26718 homo sapien
44	132	10.5	3562	1	P26718 homo sapien
45	130	10.3	1456	1	P26718 homo sapien
46	129.5	10.3	1461	1	P26718 homo sapien
47	124.5	9.9	321	1	P26718 homo sapien
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49	123	9.8	166	1	P26718 homo sapien
50	122	9.7	163	1	P26718 homo sapien
51	122	9.7	173	1	P26718 homo sapien
52	121	9.6	133	1	P26718 homo sapien
53	119.5	9.5	131	1	P26718 homo sapien
54	119	9.4	1321	1	P26718 homo sapien
55	118.5	9.4	148	1	P26718 homo sapien
56	118.5	9.4	149	1	P26718 homo sapien
57	118.5	9.4	550	1	P26718 homo sapien
58	118.5	9.4	883	1	P26718 homo sapien
59	118	9.4	146	1	P26718 homo sapien
60	118	9.4	152	1	P26718 homo sapien
61	118	9.4	165	1	P26718 homo sapien
62	118	9.4	166	1	P26718 homo sapien
63	117.5	9.3	125	1	P26718 homo sapien
64	117	9.2	1268	1	P26718 homo sapien
65	115.5	9.2	883	1	P26718 homo sapien
66	115	9.1	147	1	P26718 homo sapien
67	115	9.1	173	1	P26718 homo sapien
68	113.5	9.0	132	1	P26718 homo sapien
69	113.5	9.0	158	1	P26718 homo sapien
70	113.5	9.0	2415	1	P26718 homo sapien
71	113	8.9	1019	1	P26718 homo sapien
72	112.5	8.9	912	1	P26718 homo sapien
73	112.5	8.9	118	1	P26718 homo sapien
74	111.5	8.8	134	1	P26718 homo sapien
75	111.5	8.8	354	1	P26718 homo sapien
76	111	8.8	1019	1	P26718 homo sapien
77	111	8.8	2105	1	P26718 homo sapien
78	110.5	8.8	125	1	P26718 homo sapien
79	110	8.7	1224	1	P26718 homo sapien
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82	106.5	8.4	123	1	P26718 homo sapien
83	106.5	8.4	129	1	P26718 homo sapien
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86	104.5	8.3	117	1	P26718 homo sapien
87	104.5	8.3	1428	1	P26718 homo sapien
88	104.5	8.3	2333	1	P26718 homo sapien
89	103.5	8.2	139	1	P26718 homo sapien
90	103.5	8.2	132	1	P26718 homo sapien
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92	103	8.2	2132	1	P26718 homo sapien
93	102.5	8.1	168	1	P26718 homo sapien
94	102	8.1	135	1	P26718 homo sapien
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96	100.5	8.0	168	1	P26718 homo sapien
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99	100.5	8.0	372	1	P26718 homo sapien
100	100	7.9	862	1	P26718 homo sapien

## ALIGNMENTS

Q26620	oryctolagus	P26718	homo sapien
Q60654	mus musculu	P26718	homo sapien
Q95514	pan troglod	P26718	homo sapien
P07306	homo sapien	P26718	homo sapien
P70194	mus musculu	P26718	homo sapien
Q07108	homo sapien	P26718	homo sapien
P81282	bos taurus	P26718	homo sapien
Q95274	rattus norv	P26718	homo sapien
Q62059	mus musculu	P26718	homo sapien
P13611	homo sapien	P26718	homo sapien
Q90953	gallus gall	P26718	homo sapien
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P49259	bos taurus	P26718	homo sapien
P66734	homo sapien	P26718	homo sapien
P55067	rattus norv	P26718	homo sapien
P48304	homo sapien	P26718	homo sapien
P13371	cowpox vir	P26718	homo sapien
P22029	bothrops ja	P26718	homo sapien
P81111	trimeresur	P26718	homo sapien
O14594	homo sapien	P26718	homo sapien
Q93427	crotales du	P26718	homo sapien
Q92478	homo sapien	P26718	homo sapien
P10716	rattus norv	P26718	homo sapien
O61361	mus musculu	P26718	homo sapien
P23807	trimeresur	P26718	homo sapien
P3806	trimeresur	P26718	homo sapien
P05451	homo sapien	P26718	homo sapien
P22030	bothrops ja	P26718	homo sapien
P55066	mus musculu	P26718	homo sapien
P55068	rattus norv	P26718	homo sapien
P06027	anthracis norv	P26718	homo sapien
P17346	megabalanus	P26718	homo sapien
P8115	trimeresur	P26718	homo sapien
Q93426	crotales du	P26718	homo sapien
P16112	homo sapien	P26718	homo sapien
Q26422	carcinocor	P26718	homo sapien
P8116	trimeresur	P26718	homo sapien
Q28062	bos taurus	P26718	homo sapien
P8112	trimeresur	P26718	homo sapien
P28175	tachyples	P26718	homo sapien
P28175	tachyples	P26718	homo sapien
P07898	gallus gall	P26718	homo sapien
P8113	trimeresur	P26718	homo sapien
P07897	rattus norv	P26718	homo sapien
P8196	echis carin	P26718	homo sapien
P43137	mus musculu	P26718	homo sapien
P8114	trimeresur	P26718	homo sapien
O75862	homo sapien	P26718	homo sapien
P16108	homo sapien	P26718	homo sapien
P81509	bos taurus	P26718	homo sapien
Q9460	mus musculu	P26718	homo sapien
Q28443	canis fami	P26718	homo sapien
P8198	agkistrodon	P26718	homo sapien
P83300	anser anser	P26718	homo sapien
Q95281	trimeresur	P26718	homo sapien
Q61282	mus musculu	P26718	homo sapien
P2465	vacuaria vi	P26718	homo sapien
P1963	crotales at	P26718	homo sapien
Q26627	strongyloce	P26718	homo sapien
P21063	vacuaria vi	P26718	homo sapien
P98131	bos taurus	P26718	homo sapien
P14151	homo sapien	P26718	homo sapien
Q95237	pan troglod	P26718	homo sapien
Q26858	macaca neme	P26718	homo sapien

RESULT 1

CD94\_MACMU STANDARD; PRT; 179 AA.  
 AC Q9MZK9; Q9MZK9; Q9MZK7; Q9MZK8;  
 DT 28-FEB-2003 (Rel. 41, Created)  
 DT 28-FEB-2003 (Rel. 41, Last sequence update)  
 DT 15-SEP-2003 (Rel. 42, Last annotation update)  
 DE Natural killer cell antigen CD94 (NK cell receptor) (killer cell  
 lectin-like receptor subfamily D, member 1).  
 GN KLRD1 OR CD94.  
 OS Macaca mulatta (Rhesus macaque).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;  
 OC Cercopitheciinae; Macaca.  
 OX NCBI\_TaxID=9544;  
 RN RN  
 RP SEQUENCE FROM N.A. (ISOFORM 1; 2 AND 3).  
 RA MEDLINE=2032487; PubMed=1086116;  
 RA Labonte M.L., Levy D.B., Letvin N.L.;  
 RT "Characterization of rhesus monkey CD94/NKG2 family members and  
 RT identification of novel transmembrane-deleted forms of NKG2-A, B, C,  
 RT and D";  
 RL Immunogenetics 51:496-499(2000).  
 [2]  
 RN RN  
 RP SEQUENCE FROM N.A. (ISOFORM 1).  
 RA MEDLINE=21158386; PubMed=11261935;  
 RA Kravitz R.H., Grendell R.L., Slukvin I.I., Golos T.G.;  
 RT "Selective expression of NKG2-A and NKG2-C mRNAs and novel alternative  
 RT splicing of 5' exons in rhesus monkey decidua";  
 RL Immunogenetics 53:69-73(2001).  
 CC CC  
 CC -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC  
 CC CLASS I HLA-B MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.  
 CC -1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH NKG2 FAMILY  
 CC MEMBERS.  
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.  
 CC -1- ALTERNATIVE PRODUCTS:  
 CC Event-Alternative splicing; Named isoforms=3;  
 CC Name=1; Synonyms=CD94-A;  
 CC IsoId=Q9MZK9-1; Sequence=Displayed;  
 CC Name=2; Synonyms=CD94-B;  
 CC IsoId=Q9MZK9-2; Sequence=VSP\_003055;  
 CC Name=3; Synonyms=CD94 alt;  
 CC IsoId=Q9MZK9-3; Sequence=VSP\_003054;  
 CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.  
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.  
 CC  
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 CC  
 DR EMBL; AF190931; AAF74527.1; -;  
 DR EMBL; AF190932; AAF74528.1; -;  
 DR EMBL; AF190933; AAF74529.1; -;  
 DR EMBL; AF294866; AAG34498.1; -;  
 DR EMBL; P22897; IEGG.  
 DR InterPro; IPR001304; Lectin C.  
 DR Pfam; PF00059; lectin C; 1.  
 DR SMART; SMO0034; CLECT\_1.  
 DR PROSITE; PS00615; C-TYPE\_LLECTIN\_1; FALSE\_NEG.  
 DR Antigen; Receptor; Glycoprotein; Transmembrane; Signal-anchor; Lectin;  
 KW Alternative splicing; Polymorphism.  
 FT FT  
 FT TRANSMEM 1 10  
 FT DOMAIN 1 31  
 FT SIGNAL-ANCHOR (POTENTIAL)  
 FT CYTOPLASMIC (POTENTIAL)  
 FT (POTENTIAL)  
 FT EXTRACELLULAR (POTENTIAL)  
 FT C-TYPE LECTIN (LONG FORM)  
 FT BY SIMILARITY.  
 FT BY SIMILARITY.  
 FT DISULFID 152 166  
 FT BY SIMILARITY.

FT CARBOHYD 83 83 N-LINKED (GLCNAC...) (POTENTIAL).  
 FT CARBOHYD 132 132 N-LINKED (GLCNAC...) (POTENTIAL).  
 FT VARSPLIC 1 34 MAVERKTLWRSLGTLGICSLMWTALGILKNS -> MAA  
 FT (in isoform 3).  
 FT VARSPLIC 105 105 /FTId=VSP\_003054.  
 FT L--LQ (in isoform 2).  
 FT /FTId=VSP\_003055.  
 FT Y->D.  
 SQ SEQUENCE 179 AA; 20607 MW; 06212B4494527F07 CRC64;  
 Query Match 16.9%; Score 212.5; DB 1; Length 179;  
 Best Local Similarity 25.3%; Pred. No. 3e-12;  
 Matches 49; Conservative 35; Mismatches 91; Indels 29; Gaps 4;  
 QY 30 WRVVALILLICVGVVGLVVALGIWSVQSNVYLDENENRPTGLQOLAKRRCQYVVOSE 89  
 DQ 9 WRLISGTLGICSL--NATLGI-----LKNSTTKLSTVEPAY 44  
 QY 90 LKG----TFGKHKSPDDTWRYRGDSQYGFPRNLTWESKQYCTDMATLKIDRNI 145  
 DB 45 TPGNFILOKSDDCSCHEKRWGVRGNCYFISSEKTNWNSRPHCASQKSLLOLQNRDE 104  
 QY 146 VEYIKARTHLIRWGLSRKSNVYKWDSDVSENMFEELDCKGNMCAFYHNGMHP 205  
 DQ 105 LDRMSSQHEV-WIGLSYSEHTAWLWENGSALSYQYFSPFETPKPCNCLAVNSKQVALD 163  
 QY 206 TPCENKYLMECKR 219  
 DB 164 ESCETKRYICKQQ 177  
 RESULT 2  
 ID NKG2D\_HUMAN STANDARD; PRT; 216 AA.  
 AC P26718; Q9NR41;  
 DT 01-AUG-1992 (Rel. 23, Created)  
 DT 01-AUG-1992 (Rel. 23, Last sequence update)  
 DT 15-SEP-2003 (Rel. 42, Last annotation update)  
 DE NKG2-D type II integral membrane protein (NKG2-D activating NK  
 DE receptor) (NK cell receptor D).  
 GN NKG2D.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN RN  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=91178434; PubMed=2007850;  
 RA Houchins J.P., Yabe T., McSherry C., Bach F.H.;  
 RT "DNA sequence analysis of NKG2, a family of related cDNA clones  
 RT encoding type II integral membrane proteins on human natural killer  
 RT cells";  
 RL J. Exp. Med. 173:1017-1020(1991).  
 RN RN  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=98350122; PubMed=9683661;  
 RA Glienke J., Soboroff Y., Brostjan C., Steffens C., Nguyen C.,  
 RA Lehench H., Hoter E., Francis F.;  
 RT "The genomic organization of NKG2C, B, F, and D receptor genes in the  
 RT human natural killer gene complex";  
 RL Immunogenetics 48:163-173(1998).  
 [3]  
 RN RN  
 RP SEQUENCE FROM N.A.  
 RA Kotkapalli R., Kusmartseva I., Loughnan T.P., Jr.;  
 RT "Identification and characterization of the NKG2D gene from large  
 RT granular lymphocytic leukemia (LGL) cells";  
 RL Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.  
 [4]  
 RN RN  
 RP SEQUENCE FROM N.A., AND VARIANT THR-72.  
 RX MEDLINE=21623889; PubMed=11751968;  
 RA Shum B.P., Fiodin L.R., Muller D.G., Rajalingam R., Khakoo S.I.,  
 RA Cleand S., Guelstein L.A., Jirberg M., Patnam P.;  
 RT "Conservation and variation in human and common chimpanzee CD94 and

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RT NKG2 gene."
RL J. Immunol. 168:240-252 (2002).
CC -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC
CC CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
CC -1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH CD94.
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC -----
DR EMBL; X54870; CAA3652.1; -
DR EMBL; AJ001687; CAA04925.1; -
DR EMBL; AJ001688; CAA04925.1; JOINED.
DR EMBL; AJ001689; CAA04925.1; JOINED.
DR EMBL; AF461811; AA185253.1; -
DR EMBL; AF260135; AA86973.1; -
DR EMBL; AF260136; AA86974.1; -
DR PIR; PT0375; PT0375.
DR PIR; LHYR; 23-MAY-01.
DR PDB; 1KCG; 09-JAN-02.
DR GO; GO:0005887; C:integral to plasma membrane; TAS.
DR GO; GO:0004872; F:receptor activity; TAS.
DR GO; GO:0006960; F:antimicrobial humoral response (sensu Inver. . .); TAS.
DR GO; GO:0007165; P:signal transduction; TAS.
DR InterPro; IPR002353; AntiFreeze1.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PR00356; ANTIFREEZE1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00015; C-TYPE LECTIN 1; FALSE_NEG.
DR PROSITE; PS50041; C-TYPE LECTIN 2; 1.
KW Receptor; Transmembrane; Multigene family; Signal-anchor; Lectin;
KW Glycoprotein; Polymorphism; 3d-structure.
FT DOMAIN 1 51
FT DOMAIN 52 72
FT TRANSMEM 1
FT DOMAIN 52 72
FT TRANSMEM 1
FT DOMAIN 73 216
FT DOMAIN 98 213
FT DISULFID 99 110
FT DISULFID 127 211
FT DISULFID 189 203
FT CARBOHYD 131 131
FT CARBOHYD 163 163
FT CARBOHYD 202 202
FT VARIANT 72 72
FT VARIANT 72 72
SQ SEQUENCE 216 AA; 25274 MW; C22F6BD53D7800B CRC64;
Query Match 16.8%; Score 211.5; DB 1; Length 216;
Best Local Similarity 29.0%; Pred. No. 4,6e-12;
Matches 51; Conservative 35; Mismatches 57; Indels 33; Gaps 7;
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NKGD_MACMU
ID NKGD_MACMU STANDARD; PRT; 216 AA.
AC Q9MZU7;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE NKG2-D type II integral membrane protein (NKG2-D activating NK
DE receptor) (NK cell receptor D).
GN NKGD.
OS Macaca mulatta (Rhesus macaque).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
OC Cercopithecinae; Macaca.
OX NCBI_TaxID=9544;
RN [1]
RP SEQUENCE FROM N.A.
RA Labonte M.L., Levy D.B., Levyn N.L.;
RX Medline=20322487; Pubmed=10866118;
RT "Characterization of rhesus monkey CD94/NKG2 family members and
RT identification of novel transmembrane-deleted forms of NKG2-A, B, C,
RT and D."
RL Immunogenetics 51:496-499 (2000).
CC -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC
CC CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
CC -1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH CD94.
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; AF190943; AAF74539.1; -
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C; 1.
DR PRINTS; PR00356; ANTIFREEZE1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C-TYPE LECTIN 2; 1.
KW Receptor; Transmembrane; Multigene family; Signal-anchor; Lectin;
KW Glycoprotein; Polymorphism.
FT DOMAIN 1 51
FT DOMAIN 52 72
FT TRANSMEM 1
FT DOMAIN 73 216
FT DOMAIN 98 213
FT DISULFID 99 110
FT DISULFID 127 211
FT DISULFID 189 203
FT CARBOHYD 115 115
FT CARBOHYD 131 131
FT CARBOHYD 163 163
FT CARBOHYD 202 202
SQ SEQUENCE 216 AA; 25075 MW; A4483F31400DEAC CRC64;
Query Match 16.7%; Score 210; DB 1; Length 216;
Best Local Similarity 28.3%; Pred. No. 6,3e-12;
Matches 54; Conservative 38; Mismatches 61; Indels 38; Gaps 9;
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Db 150 KS----YHMGVLVHPIPGNSQWEDGSLSPNLTITLIMQK--DCALYNASTKGYIENC 203

QY 209 ENKHYLMCEK 219

Db 204 SINTYICWQR 214

RESULT 4

LECT\_RAT STANDARD; PRT; 301 AA.

AC P08250;

DT 01-AUG-1988 (Rel. 08, Created)

DT 01-NOV-1990 (Rel. 16, Last sequence update)

DT 30-MAY-2000 (Rel. 39, Last annotation update)

DE Asialoglycoprotein receptor R2/3 (Hepatic lectin 2/3) (RHL-2) (ASGP-R) (ASGPR).

GN ASGR2 OR ASGR-2.

OS Rattus norvegicus (Rat).

OC Bkaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.

OX NCBI\_TaxID=10116;

RN [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=8725785; PubMed=3600647;

RA McPhaul M., Berg P.;

RT "Identification and characterization of cDNA clones encoding two homologous proteins that are part of the asialoglycoprotein receptor."

RT receptor.";

RL Mol. Cell. Biol. 7:1841-1847(1987).

RN [2]

RP SEQUENCE FROM N.A.

RX MEDLINE=87250656; PubMed=3597443;

RA Halberg D.F., Mager R.B., Farrell D.C., Hildreth J., Quesenberry M.S., Loeb J.A., Holland E.C., Drickamer K.;

RT "Major and minor forms of the rat liver asialoglycoprotein receptor are independent galactose-binding proteins. Primary structure and glycosylation heterogeneity of minor receptor forms.";

RT J Biol. Chem. 262:9828-9838(1987).

RL DNA 7:721-728(1988).

RN [4]

RP SEQUENCE OF 201-301.

RX MEDLINE=84111554; PubMed=6319386;

RA Drickamer K., Mamou J.F., Bins G., leung J.O.;

RT "Primary structure of the rat liver asialoglycoprotein receptor. Structural evidence for multiple polypeptide species.";

RT J Biol. Chem. 259:770-776(1984).

CC -1- FUNCTION: MEDIATES THE ENDOCYTOSIS OF PLASMA GLYCOPROTEINS TO WHICH THE TERMINAL SIALIC ACID RESIDUE ON THEIR COMPLEX CARBOHYDRATE MOETIES HAS BEEN REMOVED. THE RECEPTOR RECOGNIZES TERMINAL GALACTOSE AND N-ACETYLGLACTOSAMINE UNITS. AFTER LIGAND BINDING TO THE RECEPTOR, THE RESULTING COMPLEX IS INTERNALIZED AND TRANSPORTED TO A SORTING ORGANELLE, WHERE RECEPTOR AND LIGAND ARE DISASSEMBLED. THE RECEPTOR THEN RETURNS TO THE CELL MEMBRANE SURFACE.

CC -1- SUBCELLULAR LOCATION: Type II membrane protein.

CC -1- TISSUE SPECIFICITY: EXPRESSED EXCLUSIVELY IN HEPATIC PARENCHYMAL CELLS.

CC -1- MISCELLANEOUS: CALCIUM IS REQUIRED FOR LIGAND BINDING.

CC -1- MISCELLANEOUS: TWO TYPES OF RAT HEPATIC LECTIN HAVE BEEN IDENTIFIED, RHL-1 AND RHL-2/3, HAVING A RELATIVE ABUNDANCE OF 4:1. RHL-2 AND RHL-3 ONLY DIFFERS IN THEIR CARBOHYDRATE STRUCTURES.

CC -1- SIMILARITY: Contains 1 C-type lectin family domain.

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CC -----

DR EMBL: M16347; AAA42038.1; -

DR EMBL: U02762; AAA41522.1; -

DR EMBL: X07636; CAA50476.1; -

DR PIR: B28462; INRT2.

DR HSSP: P06734; 1HLI.

DR InterPro: IPR002353; Antifreeze1.

DR InterPro: IPR001304; Lectin\_C.

DR InterPro: IPR005640; Lectin\_N.

DR Pfam: PF000059; Lectin\_C; 1.

DR Pfam: PF03954; Lectin\_N; 1.

DR PRINTS: PR00356; ANTIFREEZE11.

DR SMART: SM00034; CLECT; 1.

DR PROSITE: PS00615; C-TYPE LECTIN 1; 1.

DR PROSITE: PS00641; C-TYPE LECTIN 2; 1.

KW Lectin; Glycoprotein; Receptor; Endocytosis; Transmembrane; Calcium; Signal-anchor; Phosphorylation.

KW DOMAIN 1 58

FT TRANSMEM 59 79

FT DOMAIN 80 301

FT DOMAIN 169 295

FT DISULFID 170 181

FT DISULFID 198 293

FT DISULFID 271 285

FT CARBOHYD 97 97

FT CARBOHYD 119 119

FT CARBOHYD 165 165

FT CONFLICT 153 153

FT CONFLICT 202 202

FT CONFLICT 260 260

SEQUENCE 301 AA; 34943 MW; 3C2315E642D71279 CRC64;

Query Match 16.2%; Score 204; DB 1; Length 301;

Best Local Similarity 24.6%; Pred. No. 3; 2e-11;

Matches 71; Conservative 40; Mismatches 98; Indels 80; Gaps 11;

QY 3 DEDGYTLNIKTRKPAVSGPASPFWRV-----MALTLILCYMVGVALG 52

Db 24 EESGSHVQNRITNPEWGQPPRPFRQLCSKFRSLALANILLVVICVYSQSMQ 83

QY 53 I-----NSVQNR-----NYQDENKRTGLQOLARFCQYVVKQSLKG 92

Db 84 LQKEFWTLKELTSLNFSFTTLMEFKALDSHGSRNDNLTSWETILEK-----KQKDIXA 136

QY 93 TF-----KHKKSPPDTLWRYGDSGCFERRNLWERS 126

Db 137 DSHTLFHLKHPPLDLRTLTQLAFPLSNSTEC--CPVNWVERGSGCYMFSRGLTWABA 194

QY 127 KQYCTDMNATLTKLNKNRIVEY-IKARTHLIRWVGSRQKSNVEMKWDGSLSENMFEE 185

Db 195 DQCGQHEIALHLVINSRBEDEFVFKRGAFLHIGLIDKGS--WKVVDGTEVRSPKMW 252

QY 186 L-----EDGKNMNAQ-YFHNGKHEPTCEKHYIMGRKAKMT 223

Db 253 APTQPDNQCQHEBG-GSEDCAEILSDGLWMDNFCQGVNRWACKERKDDIT 300

RESULT 5

LECT\_MOUSE STANDARD; PRT; 301 AA.

AC P24721;

DT 01-MAR-1992 (Rel. 21, Created)

DT 01-MAR-1992 (Rel. 21, Last sequence update)

DT 30-MAY-2000 (Rel. 39, Last annotation update)

DE Asialoglycoprotein receptor 2 (Hepatic lectin 2) (MHL-2) (ASGP-R) (ASGPR).

GN ASGR2 OR ASGR-2.

OS Mus musculus (Mouse).

OC Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 CX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6; TISSUE=Liver;  
 RX MEDLINE=91027942; PubMed=2223888;  
 RA Sanford J.P., Doyle D.;  
 RT "Mouse asialoglycoprotein receptor cDNA sequence: conservation of  
 RT receptor genes during mammalian evolution.";  
 RL Biochim. Biophys. Acta 1087:259-261(1990).  
 CC -1- FUNCTION: MEDIATES THE ENDOCYTOSIS OF PLASMA GLYCOPROTEINS TO  
 CC WHICH THE TERMINAL SIALIC ACID RESIDUE ON THEIR COMPLEX  
 CC CARBOHYDRATE MOIETIES HAS BEEN REMOVED. THE RECEPTOR RECOGNIZES  
 CC TERMINAL GALACTOSE AND N-ACETYLGLACTOSAMINE UNITS. AFTER LIGAND  
 CC BINDING TO THE RECEPTOR, THE RESULTING COMPLEX IS INTERNALIZED AND  
 CC TRANSPORTED TO A SORTING ORGANELLE, WHERE RECEPTOR AND LIGAND ARE  
 CC DISSOCIATED. THE RECEPTOR THEN RETURNS TO THE CELL MEMBRANE  
 CC SURFACE.  
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.  
 CC -1- TISSUE SPECIFICITY: EXPRESSED EXCLUSIVELY IN HEPATIC PARENCHYMAL  
 CC CELLS.  
 CC -1- MISCELLANEOUS: CALCIUM IS REQUIRED FOR LIGAND BINDING.  
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.  
 CC  
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 CC  
 DR EMBL: X53042; CAA37211.1; -  
 DR PIR: S13165; S13165.  
 DR HSSP: P06734; 1HL1.  
 DR MGI: MGI:88082; Asgr2.  
 DR InterPro: IPR002353; Antifreeze1.  
 DR InterPro: IPR001304; Lectin\_C.  
 DR InterPro: IPR005640; Lectin\_N.  
 DR Pfam: PF00059; Lectin\_C; 1.  
 DR Pfam: PF03954; Lectin\_N; 1.  
 DR PRINTS: PR00356; ANTIFREEZE1.  
 DR SMART: SM00034; CLECT; 1.  
 DR PROSITE: PS00615; C TYPE LECTIN 1; 1.  
 DR PROSITE: PS00641; C TYPE LECTIN 2; 1.  
 DR Lectin; Glycoprotein; Receptor; Endocytosis; Transmembrane;  
 KW Calcium; Signal-anchor; Phosphorylation.  
 FT DOMAIN 1 58  
 FT TRANSMEM 59 79  
 FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)  
 FT (POTENTIAL).  
 FT DOMAIN 80 301  
 FT DOMAIN 169 295  
 FT DISUFID 170 181  
 FT DISUFID 198 293  
 FT DISUFID 271 285  
 FT CARBOHYD 97 97  
 FT CARBOHYD 165 165  
 FT CARBOHYD 298 298  
 FT N-LINKED (GLCNAC. . .) (POTENTIAL).  
 FT N-LINKED (GLCNAC. . .) (POTENTIAL).  
 FT N-LINKED (GLCNAC. . .) (POTENTIAL).  
 SQ SEQUENCE 301 AA; 34907 MW; 3A29F1A8A68F298 CRC64;  
 Query Match 15.9%; Score 200.5; DB 1; Length 301;  
 Best Local Similarity 31.2%; Pred. No. 6.6e-11;  
 Matches 48; Conservative 24; Mismatches 61; Indels 21; Gaps 5;

QY 190 KANMCAVPHNGKMHPTPCENKHYLMCCERKAGMT 223  
 Db 267 GGEDCAEILSDGHWNDFCQVNRWCEKRNIT 300  
 RESULT 6  
 ID CD94 HUMAN STANDARD; PRT; 179 AA.  
 AC Q13241; Q43321; Q43773; Q9UBH3; Q9UBQ0;  
 DT 01-NOV-1997 (Rel. 35, Created)  
 DT 01-NOV-1997 (Rel. 35, Last sequence update)  
 DT 15-SEP-2003 (Rel. 42, Last annotation update)  
 DE Natural killer cells antigen CD94 (NK cell receptor) (killer cell  
 DE lectin-like receptor subfamily D, member 1) (Kp43).  
 GN KIR2D OR CD94.  
 OS Homo sapiens (human).  
 OC Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 CX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A. (ISOFORM 1).  
 RC TISSUE=Blood;  
 RX MEDLINE=96011948; PubMed=7589107;  
 RA Chang C., Rodriguez A., Carretero M., Lopez-Botet M., Phillips J.H.,  
 RA Lanier L.L.;  
 RT "Molecular characterization of human CD94: a type II membrane  
 RT glycoprotein related to the C-type lectin superfamily.";  
 RL Eur. J. Immunol. 25:2433-2437(1995).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Placenta;  
 RX MEDLINE=98139529; PubMed=9472066;  
 RA Rodriguez A., Carretero M., Glenske J., Bellon T., Ramirez A.,  
 RA Leinrach H., Francis F., Lopez-Botet X.;  
 RT "Structure of the human CD94 C-Type lectin gene.";  
 RL Immunogenetics 47:305-309 (1998).  
 RN [3]  
 RP SEQUENCE FROM N.A. (ISOFORM 2).  
 RC Biasoni R.;  
 RL Submitted (JUN-1997) to the EMBL/GenBank/DBJ databases.  
 RN [4]  
 RP SEQUENCE FROM N.A. (ISOFORM 3).  
 RX MEDLINE=98267245; PubMed=9601951;  
 RA Furukawa H., Yabe T., Watanabe K., Miyamoto R., Akaza T., Tadokoro K.,  
 RA Tohma S., Inoue T., Yamamoto K., Iuji T.;  
 RT "An alternatively spliced form of the human CD94 gene.";  
 RL Immunogenetics 48:87-88(1998).  
 CC -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC  
 CC CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.  
 CC -1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH NKG2 FAMILY  
 CC MEMBERS.  
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.  
 CC -1- ALTERNATIVE PRODUCTS:  
 CC Event=Alternative splicing; Named isoforms=3;  
 CC Name=1; Synonyms=CD94-A;  
 CC IsoId=Q13241-1; Sequence=Displayed;  
 CC Name=2; Synonyms=CD94-B;  
 CC IsoId=Q13241-2; Sequence=VSP\_003053;  
 CC Name=3; Synonyms=CD94 alt;  
 CC IsoId=Q13241-3; Sequence=VSP\_003052;  
 CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.  
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.  
 CC -1- DATABASE: NAME=PROW; NOTE=CD guide CD94 entry;  
 CC WWW="http://www.ncbi.nlm.nih.gov/prow/cd/cd94.htm".  
 CC  
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DR EMBL: U30610; AAC50291.1; -.
DR EMBL: Y14287; CAA74663.1; -.
DR EMBL: Y14288; CAA74663.1; JOINED.
DR EMBL: AJ000673; CAA04230.1; -.
DR EMBL: AJ000001; CAA03845.1; -.
DR EMBL: AB009597; BAA24450.1; -.
DR EMBL: AB010084; BAA24451.1; -.
DR PDB: 1B6F, 15-JUN-99.
DR Genew: HGNC:6378; KLRD1.
DR MIM: 602894; -.
DR GO: GO:0005886; C:Plasma membrane; TAS.
DR GO: GO:0004888; F:antimicrobial receptor activity; TAS.
DR GO: GO:0006960; P:antimicrobial humoral response (secretory); TAS.
DR GO: GO:0007166; P:cell surface receptor linked signal transdu.; TAS.
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_C; 1.
DR SMART: SM00034; CLECT; 1.
DR PROSITE: PS00615; C-TYPE LECTIN 1; FALSE_NEG.
DR PROSITE: PS00041; C-TYPE LECTIN 2; 1.
DR Antigen: Receptor; Glycoprotein; Transmembrane; Signal-anchor; Lectin;
KW Alternative splicing; 3D-structure.
FT DOMAIN 1 31
FT TRANSMEM 10 CYTOPLASMIC (POTENTIAL).
FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
FT (POTENTIAL).
FT DOMAIN 98 176
FT DOMAIN 61 72 EXTRACELLULAR (POTENTIAL).
FT DISULFID 89 174 C-TYPE LECTIN (LONG FORM).
FT DISULFID 152 166 BY SIMILARITY.
FT CARBOHYD 83 83 BY SIMILARITY.
FT CARBOHYD 132 132 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT VARSPLIC 1 34 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT (in isoform 3).
FT VARSPLIC 105 105 /FTid=VSP_003052.
FT VARSPLIC 105 105 /FTid=VSP_003053.
FT SEQUENCE 179 AA; 20497 MW; 1884D99E8D9583A7 CRC64;

Query Match 15.5%; Score 195.5; DB 1; Length 179;
Best local Similarity 24.6%; Pred. No. 1e-10;
Matches 48; Conservative 37; Mismatches 79; Indels 31; Gaps 6;

QY 30 WRVVALILLICGVGVGVALGIMSVQGRVYLDQDENRRTGLQQLAKRFQYVYKQSE 89
DB 9 WRLISGTLGICLSL---MATLGI-----LKNSTKXISIEPAF 44
QY 90 LKG-----TFKGHKSPCDTNNRYGDSGYGFFRNHUTWESKQYCTDMNATLKIKNANI 145
DB 45 TPGPIELQKSDSCSCQEKWYGRNCYFISSEKQWNESEHLCASQKSSILQIOMTDE 104
QY 146 VEYIARPHILRWGLSRQKNEVWKMEDGSVISNMMEFLDELGKNNNC-AYPHNGKH 204
DB 105 LDFMKS-SQGFYWIGLSYSEHTAWLWENGSLSOYLPPSPET-PTNYOCLAHPNGNAL 162
QY 205 PTPCENKHYLMCEK 219
DB 163 DESCDKRYICKQ 177

RESULT 7
CD94_PANTR STANDARD; PRT; 179 AA.
ID CD94_PANTR
AC O9MZ41;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Natural killer cells antigen CD94 (NK cell receptor) (Killer cell
DE lectin-like receptor subfamily D, member 1).
GN KLRD1 OR CD94.
OS Pan troglodytes (Chimpanzee).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
OX NCBI_TaxID=9598;

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RN [1]
RP SEQUENCE FROM N.A. (ISOFORM 1).
RX MEDLINE=20350666; PubMed=10894168;
RA Khakoo S.I., Rajalingam R., Shum B.P., Weidenbach K., Flodin L.,
RA Muir D.G., Canavez F., Cooper S.L., Valiente N.M., Lanter L.L.,
RA Parham P.;
RT "rapid evolution of NK cell receptor systems demonstrated by
RT comparison of chimpanzees and humans.";
RL Immunity 12:687-698(2000).
RN [2]
RP ALTERNATIVE SPLICING.
RX MEDLINE=1623889; PubMed=11751968;
RA Shum B.P., Flodin L.R., Muir D.G., Rajalingam R., Khakoo S.I.,
RA Cleland S., Guehlein L.A., Unberg M., Parham P.;
RT "conservation and variation in human and common chimpanzee CD94 and
RT NK2 genes.";
RL J. Immunol. 168:240-252(2002).
CC -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC
CC CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
CC -1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH NK2 FAMILY
CC MEMBERS.
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- ALTERNATIVE PRODUCTS:
CC Event-Alternative splicing; Named isoforms=2;
CC Comment-Additional isoforms seem to exist;
CC Name=1; Synonyms=CD94-A;
CC Name=2; Synonyms=CD94-B;
CC IsoId=O9MZ41-1; Sequence=Displayed;
CC IsoId=O9MZ41-2; Sequence=VSP_003056;
CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL: A256954; AA86964.1; -.
DR HSSP: P22897; IEGG.
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_C; 1.
DR SMART: SM00034; CLECT; 1.
DR PROSITE: PS00615; C-TYPE LECTIN 1; FALSE_NEG.
DR PROSITE: PS00041; C-TYPE LECTIN 2; 1.
KW Antigen; Receptor; Glycoprotein; Transmembrane; Signal-anchor; Lectin;
KW Alternative splicing.
FT DOMAIN 1 10
FT TRANSMEM 10 CYTOPLASMIC (POTENTIAL).
FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
FT (POTENTIAL).
FT DOMAIN 98 176 EXTRACELLULAR (POTENTIAL).
FT DISULFID 61 72 C-TYPE LECTIN (LONG FORM).
FT DISULFID 89 174 BY SIMILARITY.
FT DISULFID 152 166 BY SIMILARITY.
FT CARBOHYD 83 83 BY SIMILARITY.
FT CARBOHYD 132 132 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT VARSPLIC 105 105 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT (in isoform 2).
FT SEQUENCE 179 AA; 20493 MW; 7244D99E8D9587E7 CRC64;

Query Match 15.4%; Score 194.5; DB 1; Length 179;
Best local Similarity 23.7%; Pred. No. 1.3e-10;
Matches 46; Conservative 37; Mismatches 82; Indels 29; Gaps 4;

QY 30 WRVVALILLICGVGVGVALGIMSVQGRVYLDQDENRRTGLQQLAKRFQYVYKQSE 89
DB 9 WRLISGTLGICLSL---MATLGI-----LKNSTKXISIEPAF 44
QY 90 LKG-----TFKGHKSPCDTNNRYGDSGYGFFRNHUTWESKQYCTDMNATLKIKNANI 145

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Db 45 TPGNFIQLQKSDCCSCQCEKHWGVYRCNCFYISSQKTMWNSRHUCASQKSLQLQNTDE 104  
 QY 146 VEYKATHTLIRVWGLSRQKSNVWKNEDGVSISENNPEPFLPDKGNMNCAYFPHNGKMP 205  
 Db 105 LDFWSS-SQCFYWTGLSTSEHETAYMLWENGSLSQYLPFPSEFTNPKYCIAYNNGVALD 163  
 QY 206 TFCENKHYLMGERK 219  
 Db 164 ESECDKNRYICKQ 177

## RESULT 8

NK13\_RAT  
 ID NK13\_RAT STANDARD; PRT; 223 AA.  
 AC P27471;  
 DT 01-AUG-1992 (Rel. 23, Created)  
 DT 01-AUG-1992 (Rel. 23, Last sequence update)  
 DT 01-JUN-1994 (Rel. 29, Last annotation update)  
 DE Natural killer cell surface protein P1-3.2.3 (NKR-P1 3.2.3) (Antigen 3.2.3).  
 OS Rattus norvegicus (Rat).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
 OX NCBI\_TaxID=10116;  
 RN [1]

RP SEQUENCE FROM N.A. PubMed=2399464;  
 RA Giorda R., Rudert W.A., Vavassori C., Chambers W.H.,  
 RA Hiseholt J.C., Trucco M.;  
 RT "NKR-P1, a signal transduction molecule on natural killer cells."; Science 249:1298-1300(1990).  
 RL  
 CC -!- FUNCTION: MEDIATES TRANSMEMBRANE SIGNALING IN NATURAL KILLER (NK) CELLS AND SO MAY ACT AS A RECEPTOR ABLE TO SELECTIVELY TRIGGER NK CELL ACTIVITY.  
 CC -!- SUBUNIT: Homodimer.  
 CC -!- SUBCELLULAR LOCATION: Type II membrane protein.  
 CC -!- TISSUE SPECIFICITY: NATURAL KILLER CELLS.  
 CC -!- MISCELLANEOUS: LIGAND BINDING MAY BE CALCIUM DEPENDENT.  
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.  
 CC  
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 CC  
 DR EMBL; M62891; AAA41710.1; -;  
 DR PIR; A35917; A35917.  
 DR HSSP; P22897; 1BEG.  
 DR InterPro; IPR002353; Antifreeze1.  
 DR InterPro; IPR01304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C\_1.  
 DR PRINTS; PR00356; ANTI-FREEZE1.  
 DR SMART; SMO0034; CLECT; 1.  
 DR PROSITE; PS00615; C-TYPE-LECTIN\_1; FALSE\_NEG.  
 DR PROSITE; PS00641; C-TYPE-LECTIN\_2; 1.  
 KW Glycoprotein; Antigen; Transmembrane; Signal-anchor; Lectin.  
 KM  
 FT TRANSMEM 44 63  
 FT DOMAIN 1 43  
 FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)  
 FT (POTENTIAL).  
 FT  
 FT DOMAIN 64 223  
 FT DOMAIN 93 212  
 FT DISULFID 94 212  
 FT DISULFID 94 212  
 FT DISULFID 122 210  
 FT DISULFID 189 202  
 FT CAROXYD 82 82  
 FT CAROXYD 143 143  
 FT CAROXYD 169 169  
 FT SEQUENCE 223 AA; 24551 MW; FCD12B21DDP4330 CR664;

Query Match

14.8%; Score 187; DB 1; Length 223;

Best Local Similarity 22.7%; Pred. No. 7,8e-10;  
 Matches 53; Conservative 50; Mismatches 84; Indels 46; Gaps 5;  
 QY 8 ITLNKTRKPA-----VSGPSSFWRRVALLILLICGVAVGLVALGIWVQNR 60  
 Db 6 VYLSKPSKTAAGACQVSPSPDPACRCPSRRIALIKSCAGIILLVAVGMSILVRV 65  
 QY 61 YLQ-----DENKRTGLLOLAKFCQYVYQSLKGFPHKHKSPCTNRRY 109  
 Db 66 LVQKPSYEPGRVILIQEVLSTGSPAKL-----KCEKWLSH 101  
 QY 110 GDSYCFPRNLNFWESKOYCTDMNATLLKIDNNVAVYKARTHTLR---WVGLSRQK 166  
 Db 102 RDKCFHVSQSTIKESIALCCGKATLLVQDEIRFLNLTKRISSSFWIGSTLS 161  
 QY 167 NEWKMWEDGVSISENNPEPFLPDKGNMNCAYFPHNGKMPFPCENKAYLMGERK 219  
 Db 162 DENKRWINGSTLNSDVLSTGTDEKD-SCASVSQDKVLSKSDSDNITWQKE 213

## RESULT 9

LECH\_CHICK  
 ID LECH\_CHICK STANDARD; PRT; 207 AA.  
 AC P02707;  
 DT 21-JUL-1986 (Rel. 01, Created)  
 DT 21-JUL-1986 (Rel. 01, Last sequence update)  
 DT 30-MAY-2000 (Rel. 39, Last annotation update)  
 DE Hepatic lectin.  
 OS Gallus gallus (Chicken).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 CC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;  
 CC Gallus.  
 OX NCBI\_TaxID=9031;  
 RN [1]

RP SEQUENCE FROM N.A. PubMed=2050668;  
 RA Bezouka K., Crichtow G.V., Rose J.M., Taylor M.E., Drickamer K.;  
 RT "Evolutionary conservation of intron position in a subfamily of genes encoding carbohydrate-recognition domains."; J. Biol. Chem. 265:11604-11609(1991).  
 RL  
 RN [2]  
 RP SEQUENCE FROM N.A. PubMed=3281941;  
 RA Mellow T.E., Halberg D., Drickamer K.;  
 RT "Endocytosis of N-acetylglucosamine-containing glycoproteins by rat fibroblasts expressing a single species of chicken liver glycoprotein receptor."; J. Biol. Chem. 263:5468-5473(1988).  
 RL  
 RN [3]

RP SEQUENCE. PubMed=81215504; PubMed=7240175;  
 RA Drickamer K.;  
 RT "Complete amino acid sequence of a membrane receptor for glycoproteins. Sequence of the chicken hepatic lectin."; J. Biol. Chem. 256:5827-5839(1981).  
 CC -!- FUNCTION: HEPATIC LECTIN IS A MEMBRANE RECEPTOR PROTEIN THAT RECOGNIZES AND BINDS EXPOSED N-ACETYLGLUCOSAMINE MOTIFIS OF PLASMA GLYCOPROTEINS, THUS MEDIATING THEIR CLEARANCE (FROM THE CIRCULATION) AND ENDOCYTOSIS.  
 CC -!- SUBCELLULAR LOCATION: Type II membrane protein.  
 CC -!- PTM: SOME OR ALL OF THE CYSTEINES ARE INVOLVED IN DISULFIDE BONDS.  
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.  
 CC  
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 CC  
 DR EMBL; M63230; AAA48814.1; -;  
 DR EMBL; M63225; AAA48814.1; JOINED.

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DR EMBL; M63226; AAA48814.1; JOINED.
DR EMBL; M63227; AAA48814.1; JOINED.
DR EMBL; M63228; AAA48814.1; JOINED.
DR EMBL; M63229; AAA48814.1; JOINED.
DR EMBL; J03188; AAA48937.1; -.
DR PIR; A03167; LNC8L.
DR HSSP; P20693; HLUJ.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C-TYPE_LECTIN_2; 1.
KW Lectin; Glycoprotein; Receptor; Endocytosis; Transmembrane;
KW Signal-anchor; Acetylation.
FT MOD_RES 1 ACETYLATION.
FT DOMAIN 1 23 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 24 48 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
(POTENTIAL).
FT DOMAIN 49 207 EXTRACELLULAR (POTENTIAL).
FT DOMAIN 77 203 C-TYPE LECTIN (LONG FORM).
FT DISULFID 78 92 BY SIMILARITY.
FT DISULFID 109 201 BY SIMILARITY.
FT DISULFID 179 193 BY SIMILARITY.
FT CARBOHYD 67 67 N-LINKED (GLCNAC. . .).
SQ SEQUENCE 207 AA; 24216 MW; 1F6B36FDB32899DB CRC64;

Query Match 13.8%; Score 174.5; DB 1; Length 207;
Best Local Similarity 25.8%; Pred.No. 9.7e-09;
Matches 41; Conservative 36; Mismatches 69; Indels 13; Gaps 5;

QY 72 TLQQLARFCQYVVKQSHLXGTFPKH-----KCSBCDNTNMYTGDSCYGFRRHLTYEES 126
DB 46 SLATIALASSKLSLTQSPKRNFFSSRDSLLPCCGASQSMWEYFGRCYCFYSLSMWKA 105
QY 127 KQYCDMMATLTKIDNENIVYIKRPTLIR-WGLSLOKSNVWKWDGSGVISENMFEE 185
DB 106 KASCEENHSHLITIDSYAKQNFVARTNENFWIGLTENEGSKQWYDGI-DIRSSSTF 164
QY 186 LEDGKG---NMNCAY-FHNGKHPTPCENKHYLMCEK 218
DB 165 WKGEENNRGPNEDCAHWYSGQWMDVYCTECCYVCEK 203

RESULT 10
NKGA_HUMAN STANDARD; PRT; 233 AA.
ID NKGA_HUMAN
AC P26715;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE NKGA-A/NKG2-B type II integral membrane protein (NKG2-A/B activating
DE NK receptor) (NK cell receptor A).
GN KIRCL OR NKGA2A.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
OX NCBI_Taxid=9606;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORMS NKG2-A AND NKG2-B).
RX MEDLINE=91178434; PubMed=2007850;
RA Houchins J.P., Yabe T., McSherry C., Bach F.H.;
RT "DNA sequence analysis of NKG2, a family of related cDNA clones
RT encoding type II integral membrane proteins on human natural killer
RT cells.";
RL J. Exp. Med. 173:1017-1020(1991).
RN [2]
RP SEQUENCE FROM N.A. (ISOFORMS NKG2-A AND NKG2-B).
RX MEDLINE=96337918; PubMed=8753859;
RA Plougastel B., Jones T., Trowsdale J.;
RT "Genomic structure, chromosome location, and alternative splicing of
RT the human NKGA2 gene.";
RL Immunogenetics 44:286-291(1996).
RN [3]

```

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RP SEQUENCE FROM N.A. (ISOFORMS NKG2-A AND NKG2-B).
RX MEDLINE=99260668; PubMed=9598306;
RA Plougastel B., Trowsdale J.;
RT "Sequence analysis of a 62-kb region overlapping the human KIRCL
RT cluster of genes.";
RL Genomics 49:193-199(1998).
RN [4]
RP SEQUENCE FROM N.A.
RA Kuchapalli R., Kusmartseva I., Loughran T.P. Jr.;
RT "Identification and characterization of the NKGA2 gene from large
RT granular lymphocytic leukemia (LGL) cells.";
RL Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
RN [5]
RP SEQUENCE FROM N.A. (ISOFORM NKG2-B).
RC TISSUE=Kidney;
RX MEDLINE=22388257; PubMed=12477932;
RA Strausberg R.L., Feingold S.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Magner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buelow R.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Wax S.T., Wang U., Hsieh P.,
RA Datchenko L., Marusik K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Uedlin T.B., Toshiyuki S., Carninci P., Pirng C.,
RA Raha S.S., Loguélano N.A., Peters G.J., Abramson R.D., Mitaliy S.J.,
RA Bosak S.A., McGowan P.J., McKernan K.J., Malek J.A., Guaratone P.H.,
RA Richards S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butcherfield Y.S.N., Krzywicki M.I., Skalska U., Smalins D.E.,
RA Schmechel A., Schein U.B., Jones S.J.M., Maita M.A.;
RT "Generation and initial analysis of more than 15,000 full-length
RT human and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC
CC CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
CC -1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH CD94.
CC -1- SCHEMATIC LOCATION: Type II membrane protein.
CC -1- ALTERNATIVE PRODUCTS:
CC Event-Alternative splicing; Named isoforms=2;
CC Name=NKG2-A;
CC IsoId=P26715-1; Sequence=Displayed;
CC Name=NKG2-B;
CC IsoId=P26715-2; Sequence=VSP_003062;
CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC -----
DR EMBL; X54867; CA38649.1; -.
DR EMBL; X54868; CA38650.2; -.
DR EMBL; U54786; AAB17133.1; JOINED.
DR EMBL; U54783; AAB17133.1; JOINED.
DR EMBL; U54784; AAB17133.1; JOINED.
DR EMBL; U54785; AAB17133.1; JOINED.
DR EMBL; AF023840; AAC17488.1; -.
DR EMBL; AF461812; AA65234.1; -.
DR EMBL; BC012550; AAHL2550.1; -.
DR PIR; P70372; P70372.
DR Genew; HGNC:6374; KIRCL.
DR MIM; 161555; -.
DR GO; GO:0005887; C:integral to plasma membrane; TAS.
DR GO; GO:0004888; F:transmembrane receptor activity; TAS.
DR GO; GO:0006960; P:antimicrobial humoral response (sensu Inver. . .; TAS.
DR GO; GO:0007166; P:cell surface receptor linked signal transdu. . .; TAS.

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DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_c1.1.
DR SMART: SM00034; CLECT_1.
DR PROSITE: PS00615; C_TYPE_LLECTIN_1; FALSE_NEG.
DR PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
KW Receptor; Transmembrane; Multigene family; Signal-anchor; Lectin;
KW Glycoprotein; Alternative splicing.
FT DOMAIN 1 70 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 71 93 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
(POTENTIAL).
FT DOMAIN 94 233 EXTRACELLULAR (POTENTIAL).
FT DOMAIN 118 231 C-TYPE LECTIN (LONG FORM).
FT DISULFID 119 130 BY SIMILARITY.
FT DISULFID 147 229 BY SIMILARITY.
FT DISULFID 208 221 BY SIMILARITY.
FT CARBOHYD 102 102 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 103 103 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 151 151 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 180 180 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT VARSPIC 96 113 Missing (in isoform NKG2-B).
/FTid=VSP_003062.
SQ SEQUENCE 233 AA; 26287 MW; 1654BD758C81A84 CRC64;

Query Match
Best local Similarity 23.8%; Score 174; DB 1; Length 233;
Matches 44; Conservative 28; Mismatches 86; Indels 26; Gaps 4;

QY 36 ILLILCGMVGVALGIMVGMQANVLQDENERTGLQGLARFCQYVVKSGELKGTGR 95
DB 75 ILIILICILIMASVTLI--VVISPTLIQRHNSSLNTRTC-----K 112
QY 96 GHKCSPODTWRYRYSQCYGFPHNLFWESKQYCDNNATLKDINRNVYIKARTHL 155
DB 113 ARAGCGCEENITYSNCSYIGKRTWESLACSKSLSDISEEMKFLSIISP- 171
QY 156 IRWVGLSRQKSNVWVKEDGSVTSNNWFLELDGKGNMCAYPHNGMPTFCENHYLM 215
DB 172 SSWIGVRNRSHPWTNMGIAFKH--ELKSDNMLNCAVLQVNRILKSAQCGSSLIYH 228
QY 216 CERK 219
DB 229 CKRK 232

RESULT 11
NK12_MOUSE STANDARD; PRT; 223 AA.
AC P27812;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Natural killer cell surface protein PI-34 (NKR-PI 34).
GN KIR3IB OR LY55B OR LY55-3.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA MEDLINE=9134956; PubMed=1890421;
RA Giorda R., Trucco M.;
RT "Mouse NKR-PI. A family of genes selective-y coexpressed in adherent
RT lymphokine-activated killer cells."
RT C. Immunol. 147:1701-1708(1991).
RN [2]
RP SEQUENCE OF 1-29 FROM N.A.
RA MEDLINE=92388663; PubMed=1517565;
RA Giorda R., Weisberg E.P., Ip T.K., Trucco M.;
RT "Genomic structure and strain-specific expression of the natural
RT killer cell receptor NKR-PI."
RT J. Immunol. 149:1957-1963(1992).
CC -1- FUNCTION: MAY FUNCTION AS SIGNAL-TRANSMITTING RECEPTOR.
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.

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CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC -----
CC EMBL; M77677; AAA9823.1; -.
CC EMBL; X64721; CAA45974.1; -.
CC PIR; B46467; B46467.
CC MGI; MGI:107538; Klr10b.
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_c1.1.
DR SMART: SM00034; CLECT_1.
DR PROSITE: PS00615; C_TYPE_LLECTIN_1; FALSE_NEG.
DR PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
KW Glycoprotein; Antigen; Transmembrane; Signal-anchor; Lectin.
FT DOMAIN 1 43 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 44 63 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
(POTENTIAL).
FT DOMAIN 64 223 EXTRACELLULAR (POTENTIAL).
FT DOMAIN 93 212 C-TYPE LECTIN (LONG FORM).
FT DISULFID 94 105 BY SIMILARITY.
FT DISULFID 122 210 BY SIMILARITY.
FT DISULFID 189 202 BY SIMILARITY.
FT CARBOHYD 81 81 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 169 169 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 186 186 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 223 AA; 25157 MW; 8D04C11DEB83956 CRC64;

Query Match
Best local Similarity 26.1%; Score 170.5; DB 1; Length 223;
Matches 61; Conservative 37; Mismatches 87; Indels 49; Gaps 10;

QY 7 YITLNI-----KTRPALVSGPASPFWRRVALL-----ILLCGMVGVALGIMV 56
DB 8 YADLNILARIQEPHGDSPLSDTCRCPRMHRIALFKGAGLLLVLAIGCLV- 66
QY 57 MORNYLQ-----DENERTGTLQGLARFCQYVVKSGELKGTGRGHKCS--PDTWRY 109
DB 67 -QKSSVQKICADVQENRHTTD-----CSVNLBCPQWLSE 101
QY 110 GDSQCYGFPHNLFWESKQYCTDMAATLKDIN--RNIVYIKARTHLIRWVGLSRQK 165
DB 102 RDKCFRVFQVSNWTEWEGQADGKRGKATLLIIOQELRLFLSLIKERKNSF-WIGRFTL 160
QY 166 SNVWVKWEDGSVTSNNWFLELDGKGNMCAYPHNGMPTFCENHYLMCERK 219
DB 161 PDMNMRWINGITFNSVLTXTGDTF-NGSCASISGKVTSESCTDNRMICQKE 213

RESULT 12
KIR6_MOUSE STANDARD; PRT; 266 AA.
AC Q60553;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Killer cell lectin-like receptor 6 (T-cell surface glycoprotein
DE LY-49P) (LY49-P antigen).
GN KIR6 OR LY49P OR LY-49P OR LY49-F.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=C57BL/6; TISSUE=Spleen;
RA MEDLINE=94300068; PubMed=8027340;

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RA Smith H.R.C., Karthofer F.M., Yokoyama W.M.;  
 RT "Ly-49 multigene family expressed by IL-2-activated NK cells."  
 RL J. Immunol. 153:1068-1079(1994).  
 CC -1- FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR CLASS I MHC.  
 CC -1- SUBUNIT: Homodimer; disulfide-linked.  
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.  
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.  
 CC -----  
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 CC -----  
 DR EMBL: U10092; AAA60220.1; -  
 DR PIR: I49051; I49051.  
 DR MGI: MGI:101902; K1ra6.  
 DR InterPro: IPR001304; Lectin\_C.  
 DR Pfam: PF00059; Lectin\_c/1.  
 DR SMART: SM00034; CLECT\_1.  
 DR PROSITE: PS00615; C TYPE LECTIN 1; FALSE\_NEG.  
 DR PROSITE: PS50041; C TYPE LECTIN 2; 1.  
 KM T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;  
 KM Signal-anchor; Lectin; Receptor; Multigene family.  
 FT DOMAIN 1 44 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)  
 FT TRANSMEM 45 66  
 FT (POTENTIAL).  
 FT DOMAIN 67 266 EXTRACELLULAR (POTENTIAL).  
 FT DOMAIN 143 261 C-TYPE LECTIN (LONG FORM).  
 FT DISULFID 171 257 BY SIMILARITY.  
 FT DISULFID 236 249 BY SIMILARITY.  
 FT CARBOHYD 87 87 N-LINKED (GLCNAC. . .) (POTENTIAL).  
 FT CARBOHYD 104 104 N-LINKED (GLCNAC. . .) (POTENTIAL).  
 SQ SEQUENCE 266 AA; 31269 MW; AD180A9C762F1F6 CRC64;  
 Query Match 13.3%; Score 167.5; DB 1; Length 266;  
 Best Local Similarity 23.7%; Pred. No. 5.5e-08;  
 Matches 58; Conservative 40; Mismatches 86; Indels 61; Gaps 11;  
 27 SFWRWVALILILICVAVVGLVALGI-----WSWQRYN-LOD 64  
 40 SVCKQLIVKALGILICLLITVAIVAKIROYGCHNOEITHTLVHNCNMSQDPNKE 95  
 65 EN-----ENRPTG--LQQAKRPGQYVVKQSEIKGTGKHKSCPDPTN-----WRYGCD 111  
 100 EMLTNRSIDSRPGNELLESINR-----EQNRGYSEKTDLDSSQVTVGVKWFPCYRT 152  
 112 SCVGFPHNLTWBESKQYCTDMNATILKINDNIVETIKARTHLI--RWVGI-SRQKSNE 168  
 153 KCYFLINAKRTWSGCKNCHYSILPLVKIDENELKPLQFO--VTPDSYVIGSLSYDEKK 210  
 169 VMKWDGSGVISENY-----FEFLDGKNNMCAYFHNKMPPTFCENKHYLMCEKKAQMTK 224  
 211 EMANIDNGSGSLDKIKRNKPFKPG-----CVFLSKRLDPTDNKSHYICCGK-----K 260  
 225 VDQLP 229  
 261 LDKFP 265  
 RESULT 13  
 NKGA\_MACMU STANDARD; PRT; 233 AA.  
 AC Q9MZJ3; Q9MZJ3; Q9MZJ3; Q9MZJ3;  
 DT 28-FEB-2003 (Rel. 41, Created)  
 DT 28-FEB-2003 (Rel. 41, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE NKG2-A/NKG2-B type II integral membrane protein (NKG2-A/B activating  
 DE NK receptor) (NK cell receptor A).  
 GN NKG2A.  
 OS Macaca mulatta (Rhesus macaque).

CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;  
 CC Cercopithecidae; Macaca.  
 CC NCBI\_TaxID=9544;  
 RN [1]  
 RP SEQUENCE FROM N.A. (ISOFORMS NKG2-A; NKG2-ADTM; NKG2-B AND NKG2-BDTM).  
 RX MEDLINE:20322487; PubMed:10866118;  
 RA Labonte M.U., Levy D.B., Letvin N.L.;  
 RT Characterization of rhesus monkey CD94/NKG2 family members and  
 RT identification of novel transmembrane-deleted forms of NKG2-A, B, C,  
 RT and D."  
 RL Immunogenetics 53:496-499(2000).  
 CC -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC  
 CC CLASS I HLA-B MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.  
 CC -1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH CD94.  
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.  
 CC -1- ALTERNATIVE PRODUCTS:  
 CC Event=Alternative splicing; Named isoforms=4;  
 CC Name=NKG2-A;  
 CC IsoId=Q9MZJ3-1; Sequence=Displayed;  
 CC Name=NKG2-B;  
 CC IsoId=Q9MZJ3-2; Sequence=VSP\_003064;  
 CC Name=NKG2-Adtm;  
 CC IsoId=Q9MZJ3-3; Sequence=VSP\_003063;  
 CC Name=NKG2-Bdtm;  
 CC IsoId=Q9MZJ3-4; Sequence=VSP\_003065;  
 CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.  
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.  
 CC -----  
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 CC -----  
 DR EMBL: AF190979; AAF73835.1; -  
 DR EMBL: AF190981; AAF73837.1; -  
 DR EMBL: AF190982; AAF73838.1; -  
 DR EMBL: AF190984; AAF73840.1; -  
 DR HSSP: P22897; 1E6G.  
 DR InterPro: IPR001304; Lectin\_C.  
 DR Pfam: PF00059; Lectin\_c/1.  
 DR SMART: SM00034; CLECT\_1.  
 DR PROSITE: PS00615; C TYPE LECTIN 1; FALSE\_NEG.  
 DR PROSITE: PS50041; C TYPE LECTIN 2; 1.  
 KM Receptor; Transmembrane; Multigene family; Signal-anchor; Lectin;  
 KM Glycoprotein; Alternative splicing.  
 FT DOMAIN 1 70 CYTOPLASMIC (POTENTIAL).  
 FT TRANSMEM 71 93 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)  
 FT (POTENTIAL).  
 FT DOMAIN 94 233 EXTRACELLULAR (POTENTIAL).  
 FT DOMAIN 116 231 C-TYPE LECTIN (LONG FORM).  
 FT DISULFID 119 130 BY SIMILARITY.  
 FT DISULFID 147 229 BY SIMILARITY.  
 FT DISULFID 208 221 BY SIMILARITY.  
 FT CARBOHYD 102 102 N-LINKED (GLCNAC. . .) (POTENTIAL).  
 FT CARBOHYD 103 103 N-LINKED (GLCNAC. . .) (POTENTIAL).  
 FT CARBOHYD 151 151 N-LINKED (GLCNAC. . .) (POTENTIAL).  
 FT VARSPLIC 63 95 DLDAPEKLIAGLIGICVLAASVTVIVIPIS -> A  
 FT (in isoform NKG2-Adtm).  
 FT VARSPLIC 96 113 Missing (in isoform NKG2-B).  
 FT VARSPLIC 112 Missing (in isoform NKG2-Bdtm).  
 FT VARSPLIC 112 Missing (in isoform NKG2-Bdtm).  
 SQ SEQUENCE 233 AA; 26286 MW; 237B2BE3E489E76 CRC64;  
 Query Match 13.2%; Score 167; DB 1; Length 233;  
 Best Local Similarity 24.3%; Pred. No. 5.3e-08;  
 Matches 46; Conservative 26; Mismatches 91; Indels 26; Gaps 4;

QY	31	RVALLILILILICVGVVAVGALGIVGSMWQCRNLTLOENERRCTTLQQLARFQGVWQSEL	90
Db	70	KLINGILIGITLIVMASVTL---VLPISLTQGHNNSSLNTRTQ-----	111
QY	91	KGTFKGKCSDDCTNWRVYGGSCYGFPHNLTWESKOYCTDMAALLIKIDNINIVEIK	150
Db	112	---KARHGCGPEEMVITYVSSCYVIGKEKRTWASLACTSKSSLSLIDNEBEMKFLT	167
QY	151	ARTHLIRVWGLSRQKSNWVWMEQGSVISEMNFLELDGKKNACAVFHNKHPPTCEN	210
Db	168	A-IITSSWIDVFRDSHHPWTINGLTFKH--RKSDEAHENQAMVHGRGLPDEGGS	223
QY	211	KHYLMCEK 219	
Db	224	SKIYHCKHK 232	
RESULT 14			
ID	NGKA_PANTR	STANDARD;	PRT; 233 AA.
AC	Q95MT5:		
DT	28-FEB-2003	(Rel. 41, last sequence update)	
DT	28-FEB-2003	(Rel. 41, last annotation update)	
DE	NKG2-A/NKG2-B type II integral membrane protein (NKG2-A/B activating NK receptor) (NK cell receptor A).		
DE	NK receptor (NK cell receptor A).		
GN	KLRC1 OR NKG2A.		
OS	Par troglodytes (Chimpanzee).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Mammalia; Eutheria; Primates; Catarrhini; Homidae; Pan.		
OX	NCBI_TaxID=9598;		
RP	SEQUENCE FROM N.A., ALTERNATIVE SPLICING, AND VARIANTS LEU-79 AND ARG-231.		
RX	MEDLINE=21623889; PubMed=11751968;		
RA	Shum B.P., Plodin L.R., Muir D.G., Rajalingam R., Khakoo S.I., Cleland S., Gueltelein L.A., Uhrberg M., Parham P., "Conservation and variation in human and common chimpanzee CD94 and NKG2 genes.";		
RL	J. Immunol. 168:240-252(2002).		
CC	-1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.		
CC	-1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH CD94.		
CC	-1- SUBCELLULAR LOCATION: Type II membrane protein.		
CC	-1- ALTERNATIVE PRODUCTS:		
CC	Event=Alternative splicing; Named isoforms=2;		
CC	Name=NKG2-A;		
CC	Isoid=Q95MT5-1; Sequence=Displayed;		
CC	Name=NKG2-B;		
CC	Isoid=Q95MT5-2; Sequence=VSP 003066;		
CC	-1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.		
CC	-1- SIMILARITY: Contains 1 C-type Lectin family domain.		
CC	-----		
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by, and for commercial entities requires a license agreement (see <a href="http://www.isb-sb.ch/announce/or send an email to license@isb-sb.ch">http://www.isb-sb.ch/announce/</a> or send an email to <a href="mailto:license@isb-sb.ch">license@isb-sb.ch</a> ).		
CC	-----		
DR	EMBL; AF350005; AAK83792.1; -		
DR	Interpro; IPR001304; Lectin_C.		
DR	Pfam; PF00059; Lectin_c1.1.		
DR	SMART; SM00034; CLECT; 1.		
DR	PROSITE; PS00615; C_TYPE_LLECTIN_1; FALSE NEG.		
DR	PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.		
KW	Receptor; Transmembrane; Multigene family; Signal-anchor; Lectin; Glycoprotein; Alternative splicing; Polymorphism.		
FT	DOMAIN	70	CYTOSOLAMIC (POTENTIAL).
FT	TRANSMEM	71	93
FT			SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN).
FT			EXTRACELLULAR (POTENTIAL).
FT	DOMAIN	94	233

FT	DOMAIN	118	231	C-TYPE LECTIN (LONG FORM).
FT	DISULFID	119	130	BY SIMILARITY.
FT	DISULFID	147	229	BY SIMILARITY.
FT	DISULFID	208	221	BY SIMILARITY.
FT	CARBOHYD	102	102	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	103	103	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	180	180	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	VASAPLIC	96	113	Missing (in isoform NKG2-B).
FT	VARIANT	79	79	/Ftrd:VSP_003066
FT	VARIANT	231	231	I -> L (IN NKG2-A*03).
FT	VARIANT	231	231	H -> R (IN NKG2-A*03).
SO	SEQUENCE	233 AA;	26212 MW;	A594BBA3A0209984 CRC64;
Query Match	Best Local Similarity	13.2%;	Score 166;	DB 1; Length 233;
Matches	44;	Conservative	26;	Mismatches 88; Indels 26; Gaps 4;
QY	36	ILILLCVGVVGLVALGIWVYQNRNYQDENENRTGIIQGLAKRPPQYVVKOSLKGTFK	95	
Db	75	ILGLICILIMASVVTI---VLPSTLIILQHNSSILNTRTQ-----K	112	
QY	96	GHKSPCDIMRWRYGDCSCGPFERHLIMPEBSKQCTDMNATLLKIDNENIVEYIKARHL	155	
Db	113	ARHGHCHCEBEYITTSNCGYIIGKRRRIWBSILACTSKNSGLISLDNEEMKFTETISP	171	
QY	156	IRWVGLSKHOKSNENYWKWEDGVISENNPFLEJDKGNKNQAYFHNKMHPTPCENKHYLM	215	
Db	172	SSWIGVFANSSHHFWVTINGLAFPH---EIKDSDNALNLCNCAVLQVNGKLSAQCGSSIIYH	228	
QY	216	CERK	219	
Db	229	CKIK	232	
RESULT 15				
ID	KLR4_MOUSE	STANDARD.	PRT;	263 AA.
AC	Q60651; 078026; Q9EPAS;			
DT	01-NOV-1997 (Rel. 35, Created)			
DT	16-OCT-2001 (Rel. 40, Last sequence update)			
DT	16-OCT-2001 (Rel. 40, Last annotation update)			
DE	Killer cell lectin-like receptor 4 (T-cell surface glycoprotein LY-49D) (LY49D antigen).			
GN	KLR4 OR LY49D OR LY-49D OR LY49-D.			
OS	Mus musculus (Mouse).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
OX	NCBI_TaxID=10090;			
RN	[1]			
RP	SEQUENCE FROM N.A. (ISOFORM D2).			
RC	STRAIN=C57BL/6; TISSUE=Spleen			
RX	MEDLINE=964300068; PubMed=8027540;			
RA	Smith H.R.C., Kallhofer F.M., Yokoyama W.M.;			
RT	"Ly-49 multi-gene family expressed by IL-2-activated NK cells.";			
RL	J. Immunol. 153:1068-1079(1994).			
RN	[2]			
RP	SEQUENCE FROM N.A., AND ALTERNATIVE SPLICING.			
RC	STRAIN=C57BL/6;			
RX	MEDLINE=96421544; PubMed=8824161;			
RA	Silver E.T., Elliott J.F., Kane K.P.;			
RT	"Alternatively spliced Ly-49D and H transcripts are found in IL-2-			
RL	activated NK cells.";			
RN	Immunogenetics 44:478-482(1996).			
RP	[3]			
RC	SEQUENCE FROM N.A. (ISOFORM D1).			
RC	STRAIN=NOD, and NOR.			
RX	MEDLINE=20384764; PubMed=10925254;			
RA	Silver E.T., Gong D.-E., Chang C.S., Amrani A., Santamaria P.,			
RT	Kane K.P.;			
RL	"Ly-49p activates NK-mediated lysis by recognizing H-2d.";			
RT	J. Immunol. 165:1771-1781(2000).			
CC	- - FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR CLASS I MHC.			
CC	- - SUBUNIT: Homodimer; disulfide-linked.			



```

CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Name=D1;
CC IsoId=Q06051-1; Sequence=Displayed;
CC Name=D2;
CC IsoId=Q06051-2; Sequence=VSP_003068;
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
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CC or send an email to license@isb-sib.ch).
CC
CC EMBL; U10090; AAA50218.1; -
CC EMBL; L78247; AAC3267.1; -
CC EMBL; AF218079; AAF99592.1; -
CC EMBL; AF218078; AAF99591.1; -
CC PIR; I49049; I49049.
CC MED; MGI:101904; Klr4a.
CC InterPro; IPR001304; Lectin_C.
CC Pfam; PF00059; Lectin_C; 1.
CC SMART; SMO0034; CLECT; 1.
CC PROSITE; PS00615; C-TYPE LECTIN 1; FALSE_NEG.
CC PROSITE; PS50041; C-TYPE LECTIN 2; 1.
CC T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;
CC Signal-anchor; Lectin; Receptor; Multigene family;
CC Alternative splicing; Polymorphism.
CC DOMAIN
CC 1 44
CC 45 65
CC SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
CC (POTENTIAL).
CC EXTRACELLULAR (POTENTIAL).
CC C-TYPE LECTIN (LONG FORM).
CC BY SIMILARITY.
CC BY SIMILARITY.
CC BY SIMILARITY.
CC N-LINKED (GLCNAC. . .) (POTENTIAL).
CC N-LINKED (GLCNAC. . .) (POTENTIAL).
CC N-LINKED (GLCNAC. . .) (POTENTIAL).
CC N-LINKED (GLCNAC. . .) (POTENTIAL).
CC CARBOHYD
CC 104 104
CC 170 170
CC CARBOHYD
CC 222 222
CC N-LINKED (GLCNAC. . .) (POTENTIAL).
CC VASPLIC
CC 39 41
CC Missing (in isoform D2).
CC FTT=VSP_003068.
CC E-> K (IN STRAINS NOD AND NOR).
CC R-> W (IN STRAINS NOD AND NOR).
CC E-> Q (IN STRAINS NOD AND NOR).
CC R-> G (IN STRAINS NOD AND NOR).
CC L-> F (IN STRAINS NOD AND NOR).
CC T-> I (IN STRAINS NOD AND NOR).
CC K-> Q (IN STRAINS NOD AND NOR).
CC Y-> S (IN STRAINS NOD AND NOR).
CC L-> F (IN STRAINS NOD AND NOR).
CC
CC 263 AA; 30872 MW; DOA94DA089A9F42D CRC64;
SQ

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DB 190 VPPSDSCWIGLSYNDKKXKDWKMDNRPSKALNTTKYINRDS----GGMFLSKRLDNNY 245
QY 208 CENKHYLMGCRKAGMTKVDLP 229
DB 246 CDQSFICIGK-----RLDKFP 262

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RESULT 16

NRKC\_HUMAN

AC P26717; Q43802; Q9NR42;

DT 01-FEB-1992 (Rel. 23, Created)

DT 28-FEB-2003 (Rel. 41, Last sequence update)

DT 28-FEB-2003 (Rel. 41, Last annotation update)

DE NK2C-C type II integral membrane protein (NK2C-C activating NK

DE receptor) (NK cell receptor C).

GN KLRC2 OR NK2C.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

OX NCBI\_TaxId=9606;

OX [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=91178434; PubMed=2007850;

RA Houchins J P., Yabe T., McSherry C., Bach P.H.;

RT "DNA sequence analysis of NK2C, a family of related cDNA clones

RT encoding type II integral membrane proteins on human natural killer

RT cells.";

RL J. Exp. Med. 173:1017-1020 (1991).

[2]

RP SEQUENCE FROM N.A.

RX MEDLINE=98350122; PubMed=9683661;

RA Glenske J., Sobanov Y., Brostjan C., Steffens C., Nguyen C.,

RA Lehnach H., Hoter B., Francis F.;

RT "The genomic organization of NK2C, E, F, and D receptor genes in the

RT human natural killer gene complex.";

RL Immunogenetics 48:163-173 (1996).

[3]

RP SEQUENCE FROM N.A.

RT Tissue=Lymphoid;

RA Blasson R.;

RL Submitted (MAY-1997) to the EMBL/GenBank/DBJ databases.

[4]

RP SEQUENCE FROM N.A. AND VARIANTS ASN-2 AND PHE-102.

RX MEDLINE=21623889; PubMed=11751968;

RA Shum B.P., Fiodin L.R., Muir D.G., Rajalingam R., Khakoo S.I.,

RA Cleland S., Guehlein U.A., Uhrberg M., Patnam P.;

RT "Conservation and variation in human and common chimpanzee CD94 and

RT NK2 genes.";

RL J. Immunol. 168:240-252 (2002).

CC -1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF XHC

CC CLASS I HLA-B MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.

CC -1- SUBCELLULAR LOCATION: Type II membrane protein.

CC -1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.

CC -1- SIMILARITY: Contains 1 C-type lectin family domain.

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CC

CC EMBL; X54869; CA38651.1; -

CC EMBL; AJ001684; CA04922.1; -

CC EMBL; Y13055; CA73498.1; -

CC EMBL; AF260134; AAF86972.1; -

CC PIR; PT0374; PT0374.

CC Genew; HGNC:6375; KLRC2.

DR MIM; 602891; -

DR GO; GO:0005887; C:integral to plasma membrane; TAs.

CC	CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
CC	- - SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH CD94.
CC	- - SUBCELLULAR LOCATION: Type II membrane protein.
CC	- - TISSUE SPECIFICITY: NATURAL KILLER CELLS.
CC	- - SIMILARITY: Contains 1 C-type lectin family domain.
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC	or send an email to <a href="mailto:license@ebi.ac.uk">license@ebi.ac.uk</a> ).
DR	EMBL; AF190934; AAF74530.1; -;
DR	EMBL; AF190936; AAF74532.1; -;
DR	HSSP; P28897; IEHG.
DR	InterPro; IPRO01304; Lectin_C.
DR	Pfam; PF00059; Lectin_c/1.
DR	SMART; SM0034; CLECT; 1.
DR	PROSITE; PS00615; C TYPE LECTIN 1; FALSE_NEG.
DR	PROSITE; PS50041; C TYPE LECTIN 2; 1.
KW	Receptor, Transmembrane, Multigene family, Signal-anchor, Lectin;
KW	Glycoprotein, Polymorphism.
FT	DOMAIN 1 70
FT	TRANSEM 71 93
FT	CYTOPLASMIC (POTENTIAL).
FT	SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
FT	(POTENTIAL).
FT	EXTRACELLULAR (POTENTIAL).
FT	DOMAIN 116 229
FT	DISTUFID 117 128
FT	BY SIMILARITY.
FT	DISULFID 145 227
FT	BY SIMILARITY.
FT	CARBOHYD 206 219
FT	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD 149 149
FT	D->G.
FT	VARIANT 26 26
FT	D->E.
SO	SEQUENCE 231 AA; 26389 MW; 89A9336621F37681 CRC64;
Query Match	12.8%; Score 162; DB 1; Length 231;
Best Local Similarity	24.9%; Pred. No. 1.5e-07;
Matches 47; Conservative 30; Mismatches 84; Indels 28; Gaps 6;	
QY	31 RWALLILLICVGNVGVLAALGTMSVQRNRYLDENENRIGTLQOLAKRFQGYVVKQS EL 90
Db	70 KLDAEVGIHC---ITLVATVTKTVLLPFLEQNNSFPNTIRQKV-RHC----- 114
QY	91 KGTFKGGKSPCDTNMRYVDSCTGFPRHNLTWEEKSKOYCTDMNALTLKDNRNIVEYIK 150
Db	115 -----GH-----CPHEWTYSNCVYLCKEKRTWAESLACTSKSKSLSDINEEMKFLI 165
QY	151 ARTLLIRAVGLSRQKSVEWKSWMEDGSVISENMFFLEDGSKNNACAFHNKGKHPTFCEN 210
Db	166 AISP-STMTGVFRDSSHFWPTVLTNGLTFRKA---EIKSDHAELYNCAMHLDRLSKYOGS 221
QY	211 KHYLMCEPK 219
Db	222 SKRYCCHK 230
RESULT 18	
KLRS_MOUSE	
ID	KLRS_MOUSE STANDARD; PRF; 266 AA.
AC	Q60682; Q78027;
DT	01-NOV-1997 (Rel. 35, Created)
DT	01-NOV-1997 (Rel. 35, last sequence update)
DT	16-OCT-2001 (Rel. 40, last annotation update)
DE	Killer cell leccin-like receptor 8 (T-cell surface glycoprotein
DE	LY-49H) (LY49-H antigen).
GN	KLRB8 OR LY49H OR LY-49H OR LY49-H.
OS	Mus musculus (Mouse).
CC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NC	NCBI_taxonomy:10090;

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RN [1]
RP SEQUENCE FROM N.A. (ISOFORM H1).
RC STRAIN=C57BL/6 X CBA; Tissue=Lung;
RX MEDLINE=95053763; PubMed=7964501;
RA Brennan J., Mager D., Jellefries W., Takei F.;
RT "Expression of different members of the Ly-49 gene family defines
RT distinct natural killer cell subsets and cell adhesion properties."
RL J. Exp. Med. 180:2287-2295(1994).
RN [2]
RP SEQUENCE FROM N.A., AND ALTERNATIVE SPLICING.
RC STRAIN=C57BL/6;
RX MEDLINE=96421544; PubMed=8924161;
RA Silver E.T., Elliott J.F., Kane K.P.;
RT "Alternatively spliced Ly-49D and H transcripts are found in IL-2-
RT activated NK cells."
RL Immunogenetics 44:478-482(1996).
CC -1- FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR CLASS I MHC.
CC -1- SUBUNIT: Homodimer; disulfide-linked.
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- ALTERNATIVE PRODUCTS:
CC Name=H1;
CC isoId=Q60682-1; Sequence=displayed;
CC Name=H2;
CC isoId=Q60682-2; Sequence=VSP_003071;
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC -----
DR EMBL; U12889; AAA58704.1; -
DR EMBL; L78253; AAC32668.1; -
DR PIR; I49114; I49114.
DR MGI; MGI:102968; K1ra8.
DR GO; GO:0009615; P:response to viruses; IDA.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR SMART; SM0034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; FALSE_NEG.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
DR T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;
KW Signal-anchor; lectin; Receptor; Multigene family;
KM Alternative splicing.
FT FT 1 44
FT DOMAIN 1 44
FT TRANSMEM 45 66
FT FT 67 266
FT DOMAIN 67 266
FT FT 143 261
FT DOMAIN 143 261
FT FT 171 257
FT DISULFID 171 257
FT FT 236 249
FT DISULFID 236 249
FT FT 87 87
FT CARBOHYD 87 87
FT FT 104 104
FT CARBOHYD 104 104
FT FT 39 41
FT VARSPLIC 39 41
SQ SEQUENCE 266 AA; 31393 MW; 3C55A8EF2B341E2 CRC64;
Query Match 12.7%; Score 160.5; DB 1; Length 266;
Best Local Similarity 21.2%; Pred. No. 2.4e-07;
Matches 53; Conservative 41; Mismatches 79; Indels 77; Gaps 12;

```

```

QY 115 GFRNLTWESKQYCTDMATLTKDNANIVEYIKARTHLI---RWYGSRKSENYWK 171
DB 156 YFMKRTWSGCKRANCOHYSPVIAKIEDDELUKFI--GRHYLLSYWIGLSYDRKKGEWA 213
QY 172 WEDGSVISENMFEDFEDKGNNA-----CAYFHNGKMFPTFCNRYLMCKER 219
DB 214 W-----IHNQSKLDYKIKXKNFTSRGCVPLSKRIIDTCNTTYICIGK- 259
QY 220 AGMTYVDQLP 229
DB 260 ----KLDKFP 265
RESULT 19
MMGL FAT STANDARD; PRT; 306 AA.
AC P49301;
DT 01-FEB-1996 (Rel. 33, Created)
DT 01-FEB-1996 (Rel. 33, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Macrophage asialoglycoprotein-binding protein (W-AAGP-BF) (Macrophage
DE galactose/N-acetylgalactosamine-specific lectin) (MMGL).
GN MGL1 OR MGL.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
RX MEDLINE=90293078; PubMed=2358462;
RA Li M., Kurasa H., Itoh N., Yamashita I., Kawasaki T.;
RT "Molecular cloning and sequence analysis of cDNA encoding the
RT macrophage lectin specific for galactose and N-acetylgalactosamine."
RL J. Biol. Chem. 265:11293-11298(1990).
RN [2]
RP PRELIMINARY SEQUENCE OF 9-28.
RX MEDLINE=88339956; PubMed=3421964;
RA Li M., Kawasaki T., Yamashita I.;
RT "Structural similarity between the macrophage lectin specific for
RT galactose/N-acetylgalactosamine and the hepatic asialoglycoprotein
RT binding protein."
RL Biochem. Biophys. Res. Commun. 155:720-725(1988).
CC -1- FUNCTION: RECOGNIZES TERMINAL GALACTOSE AND N-ACETYLGALACTOSAMINE
CC UNITS.
CC -1- SUBUNIT: Homo-oligomer.
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC -----
DR EMBL; J05495; AAA41216.1; -
DR PIR; A42230; A42230.
DR HSP; P06734; HD1.
DR InterPro; IPR001304; lectin_C.
DR InterPro; IPR005640; lectin_N.
DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF03954; lectin_N; 1.
DR SMART; SM0034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LLECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
DR T-cell; Glycoprotein; Transmembrane; Calcium; Signal-anchor.
KW lectin; Glycoprotein; Transmembrane; Cytoplasmic (POTENTIAL).
KM Signal-anchor (POTENTIAL).
FT FT 1 37
FT DOMAIN 1 37
FT TRANSMEM 38 58
FT FT 59 306
FT DOMAIN 59 306
FT FT 174 300
FT DISULFID 174 300
FT FT 175 186

```

Query Match 12.7%; Score 160.5; DB 1; Length 306;  
 Best Local Similarity 25.2%; Pred. No. 2.8e-07;  
 Matches 41; Conservative 31; Mismatches 72; Indels 19; Gaps 6;

QY 70 TGTLLQAKPFCQYVWQKSELKGFCKHKSPCDTMRYGDSYGFERNLTMESKCY 129  
 145 IDRVQOQKDLKTLTTCGLASLKNNGSAVAC--CLHMEHEGSCYWFSGCKWPEADKY 202  
 130 CTDMAATLLKIDNATVEYIKARTL--IRWGLSHQKSNVAKWEDGSVISENMEFL 186  
 DB 203 CQLENSLVVVVN--SLARQNPLOTHMOSVVTWIGLTDQ--NGPRWVDGTYEKGFTWMA 258

QY 187 EDGK-----GNMNCANF-HNGKMHPTFCENKHYLMCEK 219  
 DB 259 PKOPDNWYGHGLGGEDCAHFTSDGRWMDVCCQPRWVCEMK 301

RESULT 20  
 KLR3 MOUSE STANDARD; PRT; 266 AA.  
 AC Q64329; Q61154; Q64257;  
 DT 15-JUL-1998 (Rel. 36, Created)  
 DT 15-JUL-1998 (Rel. 36, Last sequence update)  
 DT 16-OCT-2001 (Rel. 40, Last annotation update)  
 DE Killer cell lectin-like receptor 3 (T-cell surface glycoprotein  
 LY-49C) (LY49-C antigen) (Lymphocyte antigen 49C) (565).  
 GN KLR3 OR LY49C OR LY-49C.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 CX NCBI\_TaxId=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=CB.17;  
 RX MEDLIN=95355630; PubMed=7629496;  
 RA Stoneman B.R., Bennett M., An J., Chesnut K.A., Makeland E.K.,  
 RA Schreier J.B., Siciliano M.J., Kumar V., Mathew P.A.,  
 RT "Cloning and characterization of 5B6 (Ly-49C), a receptor molecule  
 expressed on a subset of murine natural killer cells.";  
 RL J. Exp. Med. 182:305-313 (1995).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6 X CBA; TISSUE=Lung;  
 RX MEDLIN=91332459; PubMed=1869832;  
 RA Wong S., Freeman J.D., Kelleher C., Mager D., Takel F.,  
 RT "Ly-49 multi-gene family. New members of a superfamily of type II  
 membrane proteins with lectin-like domains.";  
 RL J. Immunol. 147:1417-1423 (1991).  
 RN [3]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6, and 129/SvJ;  
 RX MEDLIN=95356819; PubMed=7630404;  
 RA Held W., Roland J., Raulot D.H.,  
 RT "Allelic exclusion of Ly49-family genes encoding class I MHC-specific  
 receptors on NK cells.";  
 RL Nature 376:355-358 (1995).  
 RN [4]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=A/SN;  
 RA Sundback J., Karre K., Sentman C.J.,  
 RT Submitted (MAY-1996) to the EMBL/GenBank/DBJ databases.  
 RN [5]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6 X CBA; TISSUE=Lung;  
 RA Wong S., Freeman J.D., Kelleher C., Mager D., Takel F.,  
 RL Submitted (JUN-1994) to the EMBL/GenBank/DBJ databases.  
 RN [6]

RP SEQUENCE FROM N.A.  
 RC STRAIN=BALB/c, NZB, C57BL/6 and C57BL/6 X BALB/c;  
 RA Mathew P.A., Stoneman E., Bennett M., An J., Chesnut K.A.,  
 RA Makeland E.K., Schreier J.B., Siciliano M.J., Kumar V.,  
 RL Submitted (FEB-1996) to the EMBL/GenBank/DBJ databases.  
 CC -1- FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR CLASS I MHC.  
 CC -1- SUBUNIT: Homodimer; disulfide-linked.  
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.  
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.  
 CC -----  
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 CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
 CC -----  
 CC EMBL; U09739; AAA66873.1; -  
 CC EMBL; U49865; AAA92952.1; -  
 CC EMBL; U49866; AAA92952.1; -  
 CC EMBL; U49867; AAA92953.1; -  
 CC EMBL; U49868; AAA92954.1; -  
 CC EMBL; U10305; AAA19053.1; -  
 CC EMBL; U56405; AAB19101.1; -  
 CC EMBL; U34891; AAA77066.1; -  
 CC EMBL; U34892; AAC17703.1; -  
 CC PIR; I49059; I49059.  
 CC PIR; I49363; I49363.  
 CC HSP; P05451; IQDD.  
 CC MED; MG1.101905; Klr3.  
 CC InterPro: IPR001304; Lectin\_C.  
 CC Pfam: P50059; Lectin\_C; 1.  
 CC SMART; SM00034; CLECT; 1.  
 CC PROSITE; PS00615; C TYPE LECTIN 1; FALSE\_NEG.  
 CC PROSITE; PS50041; C TYPE LECTIN 2; 1.  
 CC K1 T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;  
 CC Signal-anchor; Lectin; Receptor; Multigene family;  
 CC CYTOPLASMIC (POTENTIAL).  
 CC DOMAIN 1 44  
 CC TRANSMEM 45 66  
 CC -----  
 CC DOMAIN 67 266  
 CC DOMAIN 143 261  
 CC DISULFID 154 257  
 CC DISULFID 171 249  
 CC CARBOHYD 79 79  
 CC CARBOHYD 87 87  
 CC CARBOHYD 104 104  
 CC CARBOHYD 113 113  
 CC CARBOHYD 160 160  
 CC VARIANT 2 2  
 CC VARIANT 13 13  
 CC VARIANT 22 22  
 CC VARIANT 34 34  
 CC VARIANT 41 42  
 CC VARIANT 60 60  
 CC VARIANT 65 66  
 CC VARIANT 72 72  
 CC VARIANT 85 85  
 CC VARIANT 93 93  
 CC VARIANT 115 115  
 CC VARIANT 117 117

Q -> F (IN STRAIN 129/SVJ).  
 Q -> L (IN STRAINS BALB/C X C57BL/6, NZB,  
 129/SVJ AND C57BL/6).  
 V -> A (IN STRAINS BALB/C X C57BL/6, NZB,  
 129/SVJ AND C57BL/6).  
 AP -> VS (IN STRAINS BALB/C X C57BL/6,  
 NZB, 129/SVJ AND C57BL/6).  
 T -> I (IN STRAINS BALB/C X C57BL/6, NZB,  
 129/SVJ AND C57BL/6).  
 AV -> T (IN STRAINS BALB/C X C57BL/6,  
 NZB, 129/SVJ AND C57BL/6).  
 N -> S (IN STRAINS BALB/C X C57BL/6, NZB,  
 129/SVJ AND C57BL/6).  
 H -> Y (IN STRAINS BALB/C X C57BL/6, NZB,  
 129/SVJ AND C57BL/6).  
 S -> R (IN NZB AND 129/SVJ).  
 T -> L (IN STRAINS BALB/C X C57BL/6, NZB  
 AND C57BL/6).  
 T -> I (IN STRAIN 129/SVJ).  
 E -> D (IN STRAINS BALB/C X C57BL/6 AND  
 C57BL/6).

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FT  VAR-LANT  127  127  D -> N (IN STRAINS BALB/C X C57BL/6 AND
FT  VARIANT  129  129  C57BL/6).
FT  VARIANT  131  131  K -> E (IN STRAINS BALB/C X C57BL/6, NZB,
FT  VARIANT  133  133  129/SVJ AND C57BL/6).
FT  VARIANT  146  146  K -> N (IN STRAIN NZB).
FT  VARIANT  151  151  V -> I (IN STRAIN NZB).
FT  VARIANT  174  174  Y -> H (IN STRAINS BALB/C X C57BL/6 AND
FT  VARIANT  179  179  C57BL/6).
FT  VARIANT  189  189  S -> G (IN STRAINS BALB/C X C57BL/6, NZB,
FT  VARIANT  198  198  129/SVJ AND C57BL/6).
FT  VARIANT  219  219  F -> Y (IN STRAINS BALB/C X C57BL/6, NZB,
FT  VARIANT  222  222  129/SVJ AND C57BL/6).
FT  VARIANT  226  226  L -> V (IN STRAINS BALB/C X C57BL/6, NZB
FT  VARIANT  232  232  AND C57BL/6).
FT  VARIANT  247  247  I -> T (IN STRAIN NZB).
FT  VARIANT  251  251  N -> S (IN STRAINS BALB/C X C57BL/6, NZB
FT  VARIANT  260  260  AND C57BL/6).
FT  VARIANT  266  266  P -> Q (IN STRAINS BALB/C X C57BL/6, NZB
FT  VARIANT  31285  31285  AND C57BL/6).
FT  VARIANT  409F61E5DFA0299A  409F61E5DFA0299A  CRC64;

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Query Match 12.5%; Score 157.5; DB 1; Length 266;
Best Local Similarity 22.0%; Pred. No. 4.4e-07;
Matches 53; Conservative 33; Mismatches 96; Indels 59; Gaps 10;

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QY  30 WRVVALILLICVGVVGEVALGIVSWQNRNYODENENRTGLQOLAKRQCYVHROSE 89
DB  43 WQIVKVLGLICPLILVAVLAVKIFQYQNHQKQINE---LNH--HNCSNMQSDFN 96
QY  90 LKGG--TPKHKGCPC-----PNN-----WRYGDCSYG 115
DB  97 LKEMLTNKSIDCRSNETLEYIKREQDRMSKTYVLDSSRLTGRGVKYPGYSKCY 156
QY  116 PFRHNLTWESKQYCTDMNATLIKIDNIVEYIKATRL---RWGLSRQKENEYWK 172
DB  157 FIVNKTWSSGCKRANQHSVPILKIEDDEDEKFL--QHIVIPENWIGLSTIDKXKXEW 214
QY  173 EDGSVISENM---FELLEDGKGNMCAYPFHNGKHEFTFCENKHYLNCERAPAKTVDQL 228
DB  215 IDNGPSKIDMKLRKRNPKSRG---CVFLSKVARIEDIDCNI PYYCICGK---KLDKF 264
QY  229 P 229
DB  265 P 265

```

```

RESULT 21
MMGL MOUSE
ID  MMGL_MOUSE  STANDARD;  FRT;  304 AA.
AC  P49300;
DT  01-FEB-1996 (Rel. 33, Created)
DT  01-FEB-1996 (Rel. 33, Last sequence update)
DT  28-FEB-2003 (Rel. 41, Last annotation update)
DE  Macrophage asialoglycoprotein-binding protein 1 (M-ASGP-BP)
DE  (Macrophage galactose/N-acetylgalactosamine-specific lectin) (MMGL).
GN  MGL OR MGL.
OS  Mus musculus (Mouse).
OC  Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OC  NCBI_TaxID=10090;
RN  [1]
RP  SEQUENCE FROM N.A.
RC  STRAIN=C3H/HeN;
RX  MEDLINE=92268032; PubMed=1587794;
RA  Sato M., Kawakami K., Osawa T., Toyoshima S.;

```

```

RT  "Molecular cloning and expression of cDNA encoding a galactose/N-
RT  acetylgalactosamine-specific lectin on mouse tumoricidal
RT  macrophages."
RL  J. Biochem. 111:331-336(1992).
RN  [2]
R2  SEQUENCE OF 102-120 AND 137-151.
RC  STRAIN=C3H/HeN;
RX  MEDLINE=89197865; PubMed=3241002;
RA  Oda S., Sato M., Toyoshima S., Osawa T.;
RT  "Purification and characterization of a lectin-like molecule specific
RT  for galactose/N-acetyl-galactosamine from tumoricidal macrophages."
RL  J. Biochem. 104:600-605(1988).
CC  -1- FUNCTION: RECOGNIZES TERMINAL GALACTOSE AND N-ACETYLGALACTOSAMINE
CC  UNITS. MAY PARTICIPATE IN THE INTERACTION BETWEEN TUMORICIDAL
CC  MACROPHAGES AND TUMOR CELLS.
CC  -1- SUBUNIT: HOMO-OLIGOMER.
CC  -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC  -1- TISSUE SPECIFICITY: IS EXPRESSED ON THE SURFACE OF ACTIVATED
CC  MACROPHAGES.
CC  -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC  -----
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CC  or send an email to license@isb-sib.ch).
CC  -----
DR  EMBL; S36676; AAB22171.1; -.
DR  PIR; JX0209; JX0209.
DR  HSSP; P06734; 1HL1.
DR  MGD; MGI:96975; Mgl1.
DR  InterPro; IPR002353; AntifreezeZell.
DR  InterPro; IPR001304; Lectin_C.
DR  InterPro; IPR005640; Lectin_N.
DR  Pfam; PF00059; Lectin_C; 1.
DR  Pfam; PF03954; Lectin_N; 1.
DR  PRINTS; PR00356; ANTIFREEZEIT.
DR  SMART; SM00034; CLECT; 1.
DR  PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR  PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
XW  Lectin; Glycoprotein; Transmembrane; Calcium; Signal anchor.
FT  DOMAIN 1 35 CYTOPLASMIC (POTENTIAL).
FT  TRANSMEM 36 56 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
FT  DOMAIN 57 304 EXTRACELLULAR (POTENTIAL).
FT  DOMAIN 172 298 C-TYPE LECTIN (LONG FORM).
FT  DISULFID 173 184 BY SIMILARITY.
FT  DISULFID 201 296 BY SIMILARITY.
FT  DISULFID 274 288 BY SIMILARITY.
FT  CARBOHYD 74 74 N-LINKED (GLCNAC...) (POTENTIAL).
FT  CARBOHYD 166 166 N-LINKED (GLCNAC...) (POTENTIAL).
SQ  SEQUENCE 304 AA; 34596 MW; 3F79CD12C34F5BCC CRC64;

```

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Query Match 12.5%; Score 157.5; DB 1; Length 304;
Best Local Similarity 20.8%; Pred. No. 5.1e-07;
Matches 61; Conservative 44; Mismatches 95; Indels 93; Gaps 11;

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```

QY  13 KTRKPAIVSVCPASSFWKRVNA-----LILILICGVGVG-----LVAL- 51
DB  14 KTQEP---GKADPSQFWRIRILSWTHLILFSLGLSLHLVAVVIGSQNSQRLDGLTURA 70
QY  52 -----GIMSV-----N 57
DB  71 TLIDNTSKIKABFQSLDRASPFGKISLKVDEVDHROELQAGRJLSOKVTSLEIVYK 130
QY  58 QNNYLQDENENRTGLQOLAKRFCQYVVKQSELKQTFGKHSKPCQDINWRYGSCYCFP 117
DB  131 3QALKTDLSDLTDEHQQLRDKLALTCQALANKN--NGSEVACCPHLWTEHSGSCYFWS 188
QY  118 RNLTWESKQYCTDMNATLIKIDNIVEYIKAR--THLIRVGLSRQKSEVWVWKEGDS 176

```

Db 189 ESEKSWPEADKCYCKLENSHLVYVNSLBRQNLQRLANVYSGILTDG--NGPWKRWDTG 246

Qy 177 VIS---ENMEFELEDG-----KNNMCAYF-HNGKQHPFCENKHYLMGCRK 219

Db 247 DFEKFKWAPLDLPDNNWFGHGLGGSDCAITTGPMWMDVCCGCTFRMIGCMK 299

RESULT 22

NCBI\_MOUSE STANDARD; PRT; 227 AA.

AC P27811;

DT 01-AUG-1992 (Rel. 23, Created)

DT 01-AUG-1992 (Rel. 23, Last sequence update)

DT 28-FEB-2003 (Rel. 41, Last annotation update)

DE Natural killer cell surface protein p1-2 (NKR-P1.2) (NKR-P1.7).

GN KLRB1A OR LY55A OR LY55.

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI\_TaxID=10090;

LN [1]

RP SEQUENCE FROM N.A.

RP MEDLINE=91349596; PubMed=1880421;

RA Giorda R.; Trucco M.;

RT "Mouse NKR-P1. A family of genes selectively coexpressed in adherent lymphokine-activated killer cells.";

RL J. Immunol. 147:1701-1708(1991).

LN [2]

RP SEQUENCE FROM N.A.

RP MEDLINE=92013158; PubMed=1680927;

RA Yokoyama W.M., Ryan J.C., Hunter J.J., Smith H.R.C., Stark M., Seaman W.B.;

RT "cDNA cloning of mouse NKR-P1 and genetic linkage with LY-49. Identification of a natural killer cell gene complex on mouse chromosome 6.";

RL J. Immunol. 147:3223-3236(1991).

CC - FUNCTION: MAX TRANSMITTING RECEPTOR.

CC - SUBUNIT: Homodimer; disulfide-linked.

CC - SUBCELLULAR LOCATION: Type II membrane protein.

CC - TISSUE SPECIFICITY: NATURAL KILLER CELLS.

CC - SIMILARITY: Contains 1 C-type lectin family domain.

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CC -----

DR EMBL; M77676; AAA39822.1; -

DR EMBL; M77753; AAA39366.1; -

DR PIR; A46467; A46467.

DR HSSP; P22897; IEGG.

DR MGD; MGI:107540; K14b1a.

DR InterPro; IPR002353; AntiFreezeZell.

DR InterPro; IPR001304; Lectin\_C.

DR Pfam; PF00059; Lectin\_C\_1.

DR PRINTS; PR00356; ANTIFREEZE211.

DR SMART; SM00034; CLECT\_1.

DR PROSITE; PS00613; C\_TYPE\_LECTIN\_1; FALSE\_NEG.

DR PROSITE; PS50041; C\_TYPE\_LECTIN\_2; 1.

KM Glycoprotein; Antigen; Transmembrane; Signal-anchor; Lectin.

FT DOMAIN 1 42 CYTOPLASMIC (POTENTIAL).

FT TRANSMEM 43 62 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN) (POTENTIAL).

FT DOMAIN 63 227 EXTRACELLULAR (POTENTIAL).

FT DOMAIN 93 212 C-TYPE LECTIN (LONG FORM).

FT DISULFID 94 105 BY SIMILARITY.

FT DISULFID 122 210 BY SIMILARITY.

FT DISULFID 189 202 BY SIMILARITY.

FT CARBOHYD 83 83 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 169 169 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 186 186 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CONFLICT 39 39 S -> L (IN REF. 2).

SQ SEQUENCE 227 AA; 25689 MW; 0599A2587DF0B615 CRC64;

Query March 12.4%; Score 156; DA 1; Length 227;

Best local similarity 24.6%; Pred. No. 5e-07;

Matches 46; Conservative 39; Mismatches 84; Indels 18; Gaps 5;

Qy 37 LILICVGVVGLVALGIVSYVQRYVQDENENRTGTLQQLAKRPGQYVYKQSEIKTFKG 96

Db 41 LKISAGLILLVLTLLIGMSYLVRLVLIQPSIRK-----C-YVLIQENINRTWDC 88

Qy 97 HKSPCTNRYRYGDCSCYGFRRNLTFEESKQYTDKNATLTKDN----RNVYRYKAR 152

Db 89 SAKLRCQDWLSHRDKCFHVSQVSNWBEGLVDCDGGATMLMLIQDEELRFLDSIRK 148

Qy 153 THLIRWGLSRQKNEVYKWEKEDGVISENMEFELEDGKNNMCAYFNGKQHPFCENK 212

Db 149 YNSF-WIGLKYTLPLDNNWFGHGLGGSDCAITTGPMWMDVCCGCTFRMIGCMK 206

Qy 213 YLMGCRK 219

Db 207 SWICQK 213

RESULT 23

NCBI\_MOUSE STANDARD; PRT; 199 AA.

AC P37217;

DT 01-OCT-1994 (Rel. 30, Created)

DT 01-OCT-1994 (Rel. 30, Last sequence update)

DT 16-OCT-2001 (Rel. 40, Last annotation update)

DE Early activation antigen CD69.

GN CD69.

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI\_TaxID=10090;

LN [1]

RP SEQUENCE FROM N.A.

RP MEDLINE=93314711; PubMed=8100776;

RA Ziegler S.F., Ramsdell F., Hjertild K.A., Armitage R.J., Grabstein K.H., Hennen K.B., Farrar T., Farslow W.C., Shevach E.M., Alderson M.R.;

RT "Molecular characterization of the early activation antigen CD69: a type II membrane glycoprotein related to a family of natural killer cell activation antigens.";

RL Eur. J. Immunol. 23:1643-1648(1993).

CC - FUNCTION: INVOLVED IN LYMPHOCYTE PROLIFERATION AND FUNCTIONS AS A SIGNAL TRANSMITTING RECEPTOR IN LYMPHOCYTES, NATURAL KILLER (NK) CELLS, AND PLATELETS.

CC - SUBUNIT: Homodimer; disulfide-linked.

CC - SUBCELLULAR LOCATION: Type II membrane protein.

CC - TISSUE SPECIFICITY: EXPRESSED ON THE SURFACE OF ACTIVATED T CELLS, B-CELLS, NATURAL KILLER CELLS, NEUTROPHILS AND PLATELETS.

CC - DEVELOPMENTAL STAGE: EARLIEST INDUCIBLE CELL SURFACE GLYCOPROTEIN ACQUIRED DURING LYMPHOID ACTIVATION.

CC - INDUCTION: BY THE ACTIVATION OF T LYMPHOCYTES.

CC - PTM: CONSTITUTIVE SER/THR PHOSPHORYLATION IN BOTH NATURE THYMOCYTES AND ACTIVATED T LYMPHOCYTES (BY SIMILARITY).

CC - SIMILARITY: Contains 1 C-type lectin family domain.

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CC -----

DR EMBL; U23638; -; NOT\_ANNOTATED\_CDS.

DR MGD; MGI:88343; Cd69.

DR InterPro; IPR002353; AntiFreezeZell.



Best Local Similarity 24.7%; Pred. No. 1.4e-06;  
Matches 42; Conservative 26; Mismatches 73; Indels 29; Gaps 5

```

QY      31  RWALLIILLICVYVWGVJVALGIMWSVQVNYJQDEENENNTGTQLQARFCQYVYQSEL  90
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      70  KLPIREVIGIIC---IVLWATVTKTIVLIPLEONNKSNNFTQ-----  105
QY      91  KGTFGKHGKSPCDTNNRYVGDSCYGFPRANLTWEEBQYQYCTDM--ATLIKIDNRIVEXI  145
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db     110  ---KAPPOCHCEEMITYSNCSYIGKRRRTWEEBLQACASKNSSLSIDNEEMKFL  165
QY     150  KARTHLIRWGLTSLRQKSNEMWKMEDQSVISENNFEFLBEGKXNVCAYFTH  199
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db     166  -ASLIPBSWIGVFRNSSHEPWITINLAKRH--EIKSDHAERCAAMIH  211

```

RESULT 25			
KLRS MOUSE			
ID	KLRS5_MOUSE	STANDARD:	PRT; 266 AA.
AC	060652;		
DT	01-NOV-1997 (Rel. 35, Created)		
DT	01-NOV-1997 (Rel. 35, Last sequence update)		
DT	16-OCT-2001 (Rel. 40, Last annotation update)		
DE	Killer cell lectin-like receptor 5 (T-cell surface glycoprotein		
DE	LY-49E) (LY49-E antigen).		
GN	KLRS5 OR LY49E OR LY-49E OR LY49-E.		
OS	Mus musculus (Mouse).		
CC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
CC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus		
NCBI_taxid=10090;			

```

RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6; TISSUE=spleen;
RX MEDLINE=94300068; PubMed=8027540;
RA Smith H.R.C.; Karlihofer F.M.; Yokoyama W.M.;
RT "Ly-49 multigene family expressed by IL-2-activated NK cells.";
RL J. Immunol. 153:1068-1079 (1994) .
CC -1- FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR CLASS I MHC.
CC -1- SUBUNIT: Homodimer; disulfide-linked.
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (see http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch) .
CC -----
DR EMBL; U10091; AAA50219.1; .
DR PIR; I49050; I49050.
DR MGP; MGI:101903; K1ra5.
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PR00059; Lectin_c; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; FALSE_NEG.
DR PROSITE; PSS0041; C_TYPE_LECTIN_2; 1.
DR T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;
KW Signal-anchor; Lectin; Receptor; Multigene family.
KT DOMAIN 1 44 CYTOPLASMIC (POTENTIAL) .
FT TRANSMM 45 66 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
FT (POTENTIAL) .
FT DOMAIN 67 266 EXTRACELLULAR (POTENTIAL) .
FT DOMAIN 143 261 C-TYPE LECTIN (LONG FORM) .
FT DISULFID 171 257 BY SIMILARITY .
FT DISULFID 236 249 BY SIMILARITY .
FT CARBOHYD 87 87 N-LINKED (GLCNAC. . .) (POTENTIAL) .
FT CARBOHYD 104 104 N-LINKED (GLCNAC. . .) (POTENTIAL) .
FT CARBOHYD 250 250 N-LINKED (GLCNAC. . .) (POTENTIAL) .
SQ SEQUENCE 266 AA; 30843 MW; B8507f221875049C CR064;

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Best Local Similarity 20.7%; Pred. No. 1.5e-06;  
Matches 50; Conservative 38; Mismatches 94; Indels 59; Gaps 9;

```

QY      WRVYALLLLICVMVVGVALGIVMSVNNNYLDDENENNRGTUQLAKRCQYVYVXSE  59
      :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::
Db      WOLTYSLSIGFPCPLLTLVAVLAVKIFQYSGHKEIHB---TLNH--NHNCSNMQSIR  96
      :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::
QY      LKGTGKHK---CSPCD-----TNMRYGDSGYG  115
      :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::
Db      LKEEMLNKKIDCSGHEELLESLNREONRWSEYTKDLSQDTGTVKHHFQYGTCKFY  156
      :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::
QY      FFRNLFWESKQVCTMNAFLTKIDRNLYEYIKARHTLR---WGLSRSQKSNVWKY  172
      :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::
Db      FVMSKNTWSGCKQTCQHYSLPVLVIEDEDEKFLQFQ--VTSDSYWLDSLDRKKKKQAW  214
      :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::
QY      EDGSVISENM---FEFLDEGKNMNAAYFINGKHPPTSCENKAYIMGERAGMTRVQL  228
      :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::
Db      IDNGPSKLDMKTRKRMFKPG---GIFLSKTRLEDYTNCSNYSYCIQGX---KLDRF  264
      :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::
QY      229 P 229
      :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::
Db      265 P 265
      :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::

```

RESULT 26			
FCER2_MOUSE	STANDARD;	PRT;	331 AA.
AC	P20653; Q61556; Q61557;		
DT	01-FEB-1991 (Rel. 17, Created)		
DT	01-FEB-1991 (Rel. 17, Last sequence update)		
DT	28-FEB-2003 (Rel. 41, Last annotation update)		
DE	Low affinity immunoglobulin epsilon Fc receptor (Lymphocyte IgE receptor) (Fc-epsilon-RII) (CD23).		
DE	receptor (Fc-epsilon-RII) (CD23).		
GN	FCER2 OR FCER2A		
OS	Mus musculus (Mouse).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
OX	NCBI_TaxID=10090;		
RN	[1]		
RP	SEQUENCE FROM N.A.		
RX	MEDLINE=900175;9; PubMed=2529542;		
RA	Bettler B, Hofsteetter H., Rao M., Yokoyama W.M., Klichherr T.,		
RA	Corrad D.H.;		
RT	"Molecular structure and expression of the murine lymphocyte low-		
RT	affinity receptor for IgE (Fc epsilon RII).";		
RL	Proc. Natl. Acad. Sci. U.S.A. 86:7506-7570(1989).		
RN	[2]		
RP	SEQUENCE FROM N.A.		
RX	MEDLINE=90171598; PubMed=2137845;		
RA	Gollnick S.O., Trounstein W.L., Yamashita J.C., Kehry M.R.,		
RA	Moore K.W.;		
RT	"Isolation, characterization, and expression of cDNA clones encoding		
RT	the mouse Fc receptor for IgE (Fc epsilon RII1).";		
RL	J. Immunol. 144:1974-1982(1990).		
RN	[3]		
RP	SEQUENCE FROM N.A. (ISOFORMS B AND C).		
RX	STRAIN=D3A/2;		
RX	MEDLINE=94372613; PubMed=8086828;		
RA	Kondo H., Ichikawa Y., Nakamura K., Tsuchiya S.;		
RT	"Cloning of cDNAs for new subtypes of murine low-affinity Fc receptor		
RT	for IgE (Fc epsilon RII/CD23).";		
RL	Int. Arch. Allergy Immunol. 105:38-48(1994).		
RN	[4]		
RP	3D-STRUCTURE MODELING OF LECTIN DOMAIN.		
RX	MEDLINE=94191542; PubMed=8142907;		
RA	Padian E.A., Helm B.A.;		
RT	"Modeling of the lectin-homology domains of the human and murine low		
RT	affinity Fc epsilon receptor (Fc epsilon RII/CD23).";		
RL	Receptor 3:325-341(1993).		
CC	FUNCTION: THIS RECEPTOR HAS ESSENTIAL ROLES IN THE REGULATION OF		
CC	IGF PRODUCTION AND IN THE DIFFERENTIATION OF B-CELLS (IT IS A B-		
CC	CELL-SPECIFIC ANTIGEN).		
CC	-1- SUBCELLULAR LOCATION: TYPE II membrane protein.		



```

CC -|- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=3;
CC Name=A;
CC IsoId=P20693-1; Sequence=Displayed;
CC Name=B;
CC IsoId=P20693-2; Sequence=VSP_003058;
CC Name=C;
CC IsoId=P20693-3; Sequence=VSP_003059;
CC -|- P1M: N- AND O-GLYCOSYLATED (BY SIMILARITY).
CC -|- MISCELLANEOUS: THERE ARE TWO KINDS OF FC RECEPTORS FOR IGE WHICH
CC DIFFER IN BOTH STRUCTURE AND FUNCTION: HIGH AFFINITY RECEPTORS ON
CC BASOPHILS AND MAST CELLS AND LOW AFFINITY RECEPTORS ON LYMPHOCYTES
CC AND MONOCYTES.
CC -|- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
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CC -----
DR EMBL; M99571; AAA74898.1; -
DR EMBL; M34163; AAA37603.1; -
DR EMBL; X64223; CAA45532.1; -
DR EMBL; X64224; CAA45533.1; -
DR PIR; A43518; INMSER.
DR PDB; 1HLJ; 3J-JAN-94.
DR MGD; MGI:95497; Reetz2a.
DR InterPro; IPR002353; Antifreeze1.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C.1.
DR PRINTS; PR00356; ANTIREFREEZ1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
DR Igb-binding protein; Transmembrane; Glycoprotein; Receptor; B-cell;
KW Repeat; Lectin; Signal-anchor; Alternative splicing; 3D-structure.
KW DOMAIN
FT 1 23
FT TRANSMEM 24 49
FT 49
FT 50 331
FT DOMAIN 185 298
FT REPEAT 71 91
FT REPEAT 92 112
FT REPEAT 113 133
FT DISULFID 133 311
FT DISULFID 136 197
FT DISULFID 214 305
FT DISULFID 282 296
FT CARBOHYD 65 65
FT CARBOHYD 114 114
FT VARSPLIC 1 7
FT 7
FT VARSPLIC 1 7
FT 7
FT STRAND 197 200
FT HELIX 207 216
FT TURN 217 218
FT STRAND 220 221
FT HELIX 227 237
FT TURN 238 239
FT STRAND 242 247
FT TURN 249 250
FT TURN 252 253
FT STRAND 256 257
FT TURN 258 259
FT STRAND 260 262
FT STRAND 268 268
FT TURN 270 271
FT TURN 277 278
FT STRAND 282 285

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FT TURN 287 288
FT STRAND 291 294
FT TURN 296 297
FT STRAND 304 307
SQ SEQUENCE 331 AA; 37647 MW; B8C6D5F34ACDB2 CRC64;
Query Match 12.0%; Score 151; DB 1; Length 331;
Best local Similarity 23.1%; Pred. No. 2.2e-06;
Matches 43; Conservative 39; Mismatches 66; Indels 38; Gaps 9;
DB 60 NW:0DE-----NENRTGT-----LQQLAKRFQCVYXQSBKGTGKQKSPCDT 104
137 NR:QDDLVNFKS:GLNEKRTASDLEKLOEYVAKMIFILIS-----KGIACNICPK 168
QY 105 NW:YGDSCYGFRRHNLVWEESKOYCTDMNATLLKIDNRN-----IVEYIKARTHLIRWVG 160
DB 189 NW:HFQKQKCYFPGKSGKQWQARFACSDLCGRVLSHSQXEQDFLMQHIKXD---SWIG 245
QY 161 LSRQKSNVWKMDGYSVSNMFEFLDQKGNM--NCAYTH--NGKMHPTCEKHYL--- 224
DB 246 LQDLNMEGRFVWSDGSPVGYSNWNPGEFNNGGQGEQCVWVRGSGQWMDAFC--RSYIDAW 303
QY 215 MCERKA 220
DB 304 VCEQLA 309
RESULT 27
NK14 MOUSE STANDARD; PRT; 220 AA.
ID NK14 MOUSE
AC P27814;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Natural killer cell surface protein PI-40 (NKR-PI 40) (NKR-PI.9).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_Taxid=10090;
[1]
AN NM_011990.1
RP SEQUENCE FROM N.A.
RX MEDLINE=91349595; PubMed=1880421;
RA Giorda R., Trucco M.;
RT "Mouse NKR-PI. A family of genes selectively coexpressed in adherent
RT lymphokine-activated killer cells.";
RL J. Immunol. 147:1701-1708(1991).
[2]
AN R011990.1
RP SEQUENCE FROM N.A.
RX STRAIN=C57BL/6J;
RA Ryan J.C., Turk J., Niemi E.C., Yokoyama W.M., Seaman W.E.;
RT "Molecular cloning of the NK1.1 antigen, a member of the NKS-PI
RT family of natural killer cell activation molecules.";
RL J. Immunol. 149:1631-1635(1992).
CC -|- FUNCTION: MAY FUNCTION AS SIGNAL-TRANSMITTING RECEPTOR.
CC -|- SUBCELLULAR LOCATION: Type II membrane protein.
CC -|- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
CC -|- SIMILARITY: Contains 1 C-type lectin family domain.
CC -----
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CC -----
DR EMBL; M77678; AAA39824.1; -
DR PIR; C46467; C46467.
DR SWISS-2DPAGE; P27814; MOUSE.
DR MGD; MGI:107538; K1b1c.
DR InterPro; IPR001304; Lectin_C.

```

Query Match	Best Local Similarity	11.9%;	Score 149.5;	D3 1;	Length 220;				
Matches	44;	Conservative	43;	Mismatches	78;	Indels	27;	Gaps	6
Dr	Pfam; PF00059; Lectin_c.1.								
DR	SMART; SMO0034; CLECT.1.								
DR	PROSITE; PS00615; C_TYPE_LLECTIN_1; FALSE_NEG.								
DR	PROSITE; PS00041; C_TYPE_LLECTIN_2; 1.								
KM	Glycoprotein; Antigen; Transmembrane; Signal-anchor; Lectin.								
FT	DOMAIN	1	42						
FT	TRANSMEM	43	62						
FT									
FT	DOMAIN	63	220						
FT	DOMAIN	90	212						
FT	DISULFID	91	102						
FT	DISULFID	119	207						
FT	DISULFID	186	199						
FT	CARBOHYD	83	83						
FT	CARBOHYD	165	166						
FT	CARBOHYD	183	183						
SO	SEQUENCE	220 AA;	24771 MW;	BA160B1DEB46398F	CRCE4;				
Qy	35	LILLILCYGVVGLNALGIMSGMGNNYQDENENETGTLQQLKAFCCYVKKQSLKGT	94						
Db	39	LALKIKSGAGILLVLTLLIGMSVLYVLLQKPSREK-----CCVFIOENINKTIV	87						
Qy	95	KGKKSPCDTVMRYRGDSCYGFERNLFWESKQYCTDMNATLLKIDN---RNIVVEYK	150						
Db	88	N-----LEPQDMLHARDKCFHYSGVSNVTEBQADCGKGAILLILQDELRFLDLSIK	143						
Qy	151	ARTHLIRVAGLSRQKSNVVMKWEDGSVISNNFEF--LEDGKGNMCAFYNGKHPTE	207						
Db	144	EKYNSE-WIGRFTLPDMNWKINFTNSDVLKITGVTEG---SCSILGDKVTPBS	198						
Qy	208	CENKHYLMCEKX	219						
Db	199	CASDNRWTCQKE	210						
RESULT 28									
LY4A_MOUSE	ID	LY4A_MOUSE	STANDARD;	PRT;	262 AA.				
AC	P20937								
DT	01-FEB-1991	(Rel. 17, Created)							
DT	01-FEB-1991	(Rel. 17, Last sequence update)							
DT	15-SEP-2003	(Rel. 42, Last annotation update)							
DE	T-cell surface glycoprotein YEL/48 (T lymphocyte antigen A1) (LY49-A antigen).								
DE	KUBAL OR LY49A OR LY-49A OR LY49 OR LY-49.								
OS	Mus musculus (Mouse).								
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;								
OC	Mammalia; Euteleostomi; Rodentia; Sciurognathi; Muridae; Mus.								
OX	NCBI_TaxId=10090;								
RN	[1]								
RN	SEQUENCE FROM N.A.								
RA	MEDLINE=89140367; PubMed=2783949;								
RT	Chan P.-Y., Takei F.;								
RT	"Molecular cloning and characterization of a novel murine T cell								
RT	surface antigen, YEL/48."								
RL	J. Immunol. 142:1727-1736(1989).								
RN	[2]								
RP	SEQUENCE FROM N.A.								
RX	MEDLINE=89309828; PubMed=2787364;								
RA	Yokoyama W.M., Jacobs J., Kanagawa O., Shevach E.M., Cohen D.I.;								
RT	"A murine T lymphocyte antigen belongs to a supergene family of type								
RT	II integral membrane proteins."								
RL	J. Immunol. 143:1379-1386(1989).								
CC	-1- FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR H-2D								
CC	ALLELES. INHIBITS THE ACTIVITY OF NK CELLS THUS PREVENTING								
CC	CELL LYSIS.								
CC	-1- SUBUNIT: Homodimer, disulfide-linked.								
CC	-1- SUBCELLULAR LOCATION: Type II membrane protein.								
CC	-1- TISSUE SPECIFICITY: HIGH, IN LYMPHOMA LINES, VERY LOW IN								

CC	NORMAL LYMPHOCYTES.
CC	-I- SIMILARITY: Contains 1 C-type lectin family domain.
CC	-----
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL Outstation at the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (see <a href="http://www.ebi.ac.uk/announce/">http://www.ebi.ac.uk/announce/</a> ).
CC	or send an email to <a href="mailto:license@ebi-sib.ch">license@ebi-sib.ch</a> .
CC	-----
DR	EMBL; M25775; AAA40578.1; ALT_SEQ.
DR	EMBL; M25812; AAA37242.1; .
DR	PIR; A30573; A30573.
DR	PIR; A45813; A45813.
DR	PDB; 1QO3; 02-JAN-00.
DR	MGI; 101907; Klrsl.
DR	InterPro; IPR001304; Lectin_C.
DR	Fam; PF00059; lectin_c/1.
DR	SMART; SMO0034; CLECT_1.
DR	PROSITE; PS00615; C-TYPE LECTIN_1; FALSE_NEG.
DR	PROSITE; PS50041; C-TYPE LECTIN_2; 1.
KW	T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;
KW	Signal-anchor; Lectin; Receptor; Multigene family; 3D-structure.
FT	SIGNAL ANCHOR (PROBABLE).
FT	CYTOLASMIC (PROBABLE).
FT	DOMAIN 1 44
FT	TRANSMEM 45 66
FT	(POTENTIAL).
FT	EXTRACELLULAR (PROBABLE).
FT	C-TYPE LECTIN (LONG FORM).
FT	BY SIMILARITY.
FT	DISULFID 167 253
FT	DISULFID 232 245
FT	FT SITE 137 139
FT	CELL ATTACHMENT SITE.
FT	CARBOHYD 86 86
FT	CARBOHYD 103 103
FT	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CARBOHYD 123 123
FT	N-LINKED (GLCNAC. .) (POTENTIAL).
FT	CONFLICT 76 78
FT	NCE -> KLQ (IN REF. 2).
FT	I -> M (IN REF. 2).
FT	A -> T (IN REF. 2).
FT	G -> R (IN REF. 2).
FT	CONFLICT 223 223
FT	SEQUENCE 262 AA; 30498 MW; 3C9328D265F71B5E CMC64;
Query Match:	11.9%; Score 149.5; DB 1; Length 262;
Best Local Similarity	21.5%; Pred. No. 2.3e-06;
Matches 52; Conservative	36; Mismatches 95; Indels 59; Gaps 9;
QY	27 SFWRVVALILLILLCVGWVGLVALGWSVQRNYLDQENENRRTLTLOQLAKRFQGVYVK 86
Do	40 SFHKFIYIALIGTCFFLLIVAVSLA----KLFQYDQGNCEBELN--HNNSNMQS 92
QY	67 QSELKGITFKHKSCPCD-----TNRYEGDCSYG 115
Do	93 DINKDEMLTKRKSTIECDLIASLNDDNRNLVKTFTVLDSLOHTGRGDVYWPFCYMKCY 152
QY	116 FFRNLFWESKOYCTDMNALTLTDNNIYEVYKARHL-----RWVGISRQSNSEVW 170
Do	153 FYMRKTVSGCKRAQSSLSLKLKDDEDLKFU---LVVPDSQWGLSYDNKKQDW 208
QY	171 KWEDG--SVISENNFEF-LIEDGKNMCAFYFHNGKAHPTEFNKHMYLCERKAGMTKYVD 227
Do	209 AWINDRPKTLANTGKVIRBG---GMLSKTRLDGNDQDVAFICIGK-----RLDK 259
QY	228 LP 229
Do	260 FP 261
RESULT 29	
LECH MOUSE	
ID LECH MOUSE	STANDARD; PRT; 283 AA.
AC P34927.Q64363;	
DT 01-FEB-1994 (Rel. 28, Created)	
DT 15-JUN-1998 (Rel. 36, Last sequence update)	
DT 30-MAY-2000 (Rel. 39, Last annotation update)	

DE Asialoglycoprotein receptor 1 (Hepatic lectin 1) (MHU-1) (ASGP-R)  
 DE (ASGP-R).  
 GN ASGRI OR ASGR-1.  
 OS Mus musculus (Mouse).  
 CC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Rodentia; Sclerognathi; Muridae; Murinae; Mus.  
 CX NCBI\_TaxId=10090.  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=93176818; PubMed=8439566;  
 RA Takezawa R., Shinzawa K., Watanabe Y., Akaike T.;  
 RT "Determination of mouse major asialoglycoprotein receptor cDNA  
 RL sequence.";  
 RL Biochim. Biophys. Acta 1172:220-222(1993).  
 (2)  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=BALB/c; TISSUE=Liver;  
 RX MEDLINE=95047431; PubMed=7959950;  
 RA Monroe R.S., Huber B.E.;  
 RT "The major form of the murine asialoglycoprotein receptor: cDNA  
 RL sequence and expression in liver, testis and epididymis.";  
 RL Gene 148:237-244(1994).  
 CC -!- FUNCTION: MEDIATES THE ENDOCYTOSIS OF PLASMA GLYCOPROTEINS TO  
 CC WHICH THE TERMINAL SIALIC ACID RESIDUE ON THEIR COMPLEX  
 CC CARBOHYDRATE MOIETIES HAS BEEN REMOVED. THE RECEPTOR RECOGNIZES  
 CC TERMINAL GALACTOSE AND N-ACETYLGLACTOSAMINE UNITS. AFTER LIGAND  
 CC BINDING TO THE RECEPTOR, THE RESULTING COMPLEX IS INTERNALIZED AND  
 CC TRANSPORTED TO A SORTING ORGANELLE, WHERE RECEPTOR AND LIGAND ARE  
 CC DISSOCIATED. THE RECEPTOR THEN RETURNS TO THE CELL MEMBRANE  
 CC SURFACE.  
 CC -!- SUBCELLULAR LOCATION: Type II membrane protein.  
 CC -!- TISSUE SPECIFICITY: EXPRESSED EXCLUSIVELY IN HEPATIC PARENCHYMAL  
 CC CELLS.  
 CC -!- MISCELLANEOUS: CALCIUM IS REQUIRED FOR LIGAND BINDING.  
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.  
 CC -----  
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 CC or send an email to [license@sib-sib.ch](mailto:license@sib-sib.ch)).  
 CC -----  
 DR EMBL: D13517; BA02734.1; -  
 DR EMBL: U09362; AA80441.1; -  
 DR EMBL: U09372; AA80440.1; -  
 DR HSSP: P20693; 1HLJ.  
 DR MGD: MGI:88081; ASGRI.  
 DR InterPro: IPR002353; AntiFreeze2.1.  
 DR InterPro: IPR001304; Lectin C.  
 DR InterPro: IPR005640; Lectin\_N.  
 DR Pfam: PF00059; lectin\_c/1.  
 DR Pfam: PF03954; lectin\_N/1.  
 DR PRINTS: PR00356; ANTI-FREEZE2.1.  
 DR SMART: SM00034; CLECT.1.  
 DR PROSITE: PS00615; C-TYPE LECTIN 1; 1.  
 DR PROSITE: PS00641; C-TYPE LECTIN 2; 1.  
 KW Lectin; Glycoprotein; Receptor; Endocytosis; Transmembrane;  
 KW Calcium; Signal-anchor; Phosphorylation.  
 FT INIT MET 0  
 FT DOMAIN 1 38  
 FT TRANSMEM 1 59  
 FT SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)  
 FT (POTENTIAL).  
 FT CYTOPLASMIC (POTENTIAL).  
 FT DOMAIN 60 283  
 FT SITE 151 277  
 FT SITE 4 7  
 FT DISULFID 152 163  
 FT DISULFID 180 275  
 FT DISULFID 253 267  
 FT CARBOHYD 74 74  
 FT CARBOHYD 77 77  
 FT CARBOHYD 145 145  
 FT N-LINKED (GLCNAC. .) (POTENTIAL).  
 FT N-LINKED (GLCNAC. .) (POTENTIAL).  
 FT N-LINKED (GLCNAC. .) (POTENTIAL).

FT CONFLICT 150 150 I -> T (IN REF. 1).  
 SQ SEQUENCE 283 AA; 32472 MW; 982A5D305AAED08F CRC64;  
 Query Match 11.8%; Score 149; DB 1; Length 283;  
 Best Local Similarity 24.3%; Pred. No. 2,8e-06;  
 Matches 44; Conservative 33; Mismatches 84; Indels 20; Gaps 6;  
 QY 58 QRYVLDENRNGTLOQLAKRFQYVVKSEIKGTIKFKKSCPDNNWRYGDSYCGFT 117  
 Db 110 QQRDLTEHSSLLHVKQIVSDVPSLSCQVAARFGNSERIC--CPINWEYBGSCTWFS 167  
 QY 118 RHNLTWESKQYCTDMNATLTKIDNRIVAYIKART-HLIRWYGLSPQKSENEWKWEDGS 176  
 Db 168 SSVPFTFAKRYCOLENAHIVVYTSRDEQFLOQRMGPPLMTWIGLITDQ--NGPWKWDGT 225  
 QY 177 VISENMFELIDGX-----GNMNCAYF-HNGKMEPTFCENKHYLMCRKAGKTKVD 226  
 Db 226 DYETGFQNWEPQCDNWNVYGEGLGGEDCAFTTIDGRWNNDDVCRRPYRWGCE----TKLD 280  
 QY 227 Q 227  
 Db 281 K 281  
 RESULT 30  
 RHCA\_AGRKH STANDARD; PRT; 133 AA.  
 AC P81397;  
 DT 15-JUL-1998 (Rel. 36, Created)  
 DT 15-JUL-1998 (Rel. 36, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE Rhodocetin alpha subunit.  
 OS Agkistrodon rhodostoma (Malayan pit viper) (Calloselasma rhodostoma).  
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 CC Lepidodonta; Squamata; Scleroglossa; Serpentes; Colubridae;  
 CC Viperidae; Crotalinae; Calloselasma.  
 CX NCBI\_TaxId=8717;  
 RN [1]  
 RP SEQUENCE, FUNCTION, SUBUNIT, AND MASS SPECTROMETRY.  
 RC Tissue-Venom.  
 RX MEDLINE=99303998; PubMed=10360956;  
 RA Wang R., Kim R.M., Chung M.C.Y.;  
 RT "Rhodocetin, a novel platelet aggregation inhibitor from the venom of  
 RT Calloselasma rhodostoma (Malayan pit viper): synergistic and  
 RT noncovalent interaction between its subunits.";  
 RT Biochemistry 38:7584-7593(1999).  
 CC -!- FUNCTION: A potent inhibitor of collagen-induced platelet  
 CC aggregation. Individually, neither subunit inhibits platelet  
 CC aggregation. Both subunits are essential.  
 CC -!- SUBUNIT: Heterodimer of one alpha and one beta subunit held  
 CC together by noncovalent interactions rather than by intersubunit  
 CC disulfide bridges.  
 CC -!- SUBCELLULAR LOCATION: Secreted.  
 CC -!- MASS SPECTROMETRY: MW=15955.90; MW ERR=1.44; METHOD=Electrospray.  
 CC -!- SIMILARITY: Contains 1 C-type lectin family domain.  
 DR HSSP: P23806; 1LXX.  
 DR InterPro: IPR001304; Lectin\_C.  
 DR Pfam: PF00059; lectin\_c/1.  
 DR SMART: SM00034; CLECT.1.  
 DR PROSITE: PS00615; C-TYPE LECTIN 1; FALSE\_NEG.  
 DR PROSITE: PS00641; C-TYPE LECTIN 2; 1.  
 KW Lectin.  
 FT DOMAIN 1 129  
 FT DISULFID 2 13  
 FT DISULFID 30 127  
 FT DISULFID 102 119  
 SQ SEQUENCE 133 AA; 15962 MW; 36E6AC519DFC674D CRC64;  
 Query Match 11.8%; Score 148.5; DB 1; Length 133;  
 Best Local Similarity 30.9%; Pred. No. 1.3e-06;  
 Matches 42; Conservative 21; Mismatches 44; Indels 29; Gaps 8;  
 QY 102 CDIMWRYGDSYCGFTFHNLTWESKQYCTDM--NATLLKIDNR-----NIVEIKART 153

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Db      2 CPDQMSSTKSYCYCPZPEKKTWEAEARFCTQKXKAEHLYSENHLEAVYVMWNNFEN 61
Qy      154 HLIR-WVGL-----SEQKSNVEWKMEDSGVIS-ENNF-----PLEDGKGNMCAYPENG 202
Db      62 KIYRSWIGLKLTKENKQGRSN--LEWSDGSSISYENIYEPYMEKCFIMDHQSL-----F 112
Qy      202 KMEPTPCENKHYLMCE 217
Db      113 KMTIADCEKKNVEMCK 129

RESULT 31
LECI_HUMAN STANDARD; PRT; 311 AA.
AC P07307; 000448; Q03969;
DT 01-APR-1988 (Rel. 07, Created)
DT 01-APR-1988 (Rel. 07, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Asialoglycoprotein receptor 2 (Hepatic lectin H2) (ASGP-R) (ASGPR).
GN Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OC NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORM 1).
RX MEDLINE=86016723; PubMed=3863106;
RA Spiess M., Lodish H.F.;
RT "Sequence of a second human asialoglycoprotein receptor: conservation
RT of two receptor genes during evolution.";
RL Proc. Natl. Acad. Sci. U.S.A. 82:6465-6469(1985).
RN [2]
RP SEQUENCE FROM N.A. (ISOFORMS 2 AND 3).
RX MEDLINE=92184202; PubMed=1371982;
RA Paletta E., Stockert R.J., Racevskis J.;
RT "Differences in the abundance of variably spliced transcripts for the
RT second asialoglycoprotein receptor polypeptide, H2, in normal and
RT transformed human liver.";
RL Hepatology 15:395-402(1992).
RN [3]
RP SEQUENCE FROM N.A. (ISOFORM 3).
RX MEDLINE=22388257; PubMed=12477932;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Rata S.S., Loughellaro N.A., Peters G.J., Abramson R.O., Mullenbach S.J.,
RA Bosak S.A., McEwan P.V., McKernan K.J., Malek J.A., Gunatirane P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.C., Lu X., Gibbs R.A.,
RA Fahey J., Hellon E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shcherchenko Y., Bouffard G.G.,
RA Blakeley R.M., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Buttefield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,
RA Scherch A., Schein J.B., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length
RT human and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
-1- FUNCTION: MEDIATES THE ENDOCYTOSIS OF PLASMA GLYCOPROTEINS TO
WHICH THE TERMINAL SIALIC ACID RESIDUE ON THEIR COMPLEX
CARBOHYDRATE MOIETIES HAS BEEN REMOVED. THE RECEPTOR RECOGNIZES
TERMINAL GALACTOSE AND N-ACETYLGALACTOSAMINE UNITS. AFTER LIGAND
BINDING TO THE RECEPTOR, THE RESULTING COMPLEX IS INTERNALIZED AND
TRANSPORTED TO A SORTING ORGANELLE, WHERE RECEPTOR AND LIGAND ARE
DISASSOCIATED. THE RECEPTOR THEN RETURNS TO THE CELL MEMBRANE
SURFACE.

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CC -1- SUBUNIT: THE FUNCTIONING LIGAND-BINDING UNIT OF THIS RECEPTOR IS
CC THOUGHT TO BE AT LEAST A DIMER.
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=3;
CC Name=1;
CC IsoId=P07307-1; Sequence=Displayed;
CC Name=2;
CC IsoId=P07307-2; Sequence=VSP_003060;
CC Name=3;
CC IsoId=P07307-3; Sequence=VSP_003060, VSP_003061;
CC -1- TISSUE SPECIFICITY: EXPRESSED EXCLUSIVELY IN HEPATIC PARENCHYMAL
CC CELLS.
CC -1- MISCELLANEOUS: CALCIFY IS REQUIRED FOR LIGAND BINDING.
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CC or send an email to license@ebi.ac.uk).
CC -----
DR EMBL; M11025; AAB59519.1; -
DR EMBL; U57197; AAB58308.1; -
DR EMBL; X55283; CA818997.1; -
DR EMBL; BC017251; AAH17511.1; -
DR PIR; A25179; IINH02A.
DR HSSP; P06734; HLII..
DR Genew; HGNC:743; ASGR2.
DR MIM; 108361; -
DR GO; GO:0004873; F:asialoglycoprotein receptor activity; TAS.
DR GO; GO:0007166; P:cell surface receptor linked signal transdu. . .; TAS.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR005640; lectin_N.
DR Pfam; PF00059; lectin_C; 1.
DR Pfam; PF03954; lectin_N; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
KW Lectin; Glycoprotein; Receptor; Endocytosis; Transmembrane;
KW Calcium; Signal-anchor; Phosphorylation; Alternative splicing.
FT DOMAIN 1 58 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 59 75 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)
(POTENTIAL).
FT DOMAIN 80 311 EXTRACELLULAR (POTENTIAL).
FT DOMAIN 176 302 C-TYPE LECTIN (LONG FORM).
FT SITE 5 8 ENDOCYTOSIS SIGNAL (POTENTIAL).
FT DISULFID 177 188 BY SIMILARITY.
FT DISULFID 205 300 BY SIMILARITY.
FT DISULFID 278 292 BY SIMILARITY.
FT CARBOHYD 102 102 N-LINKED (GLCNAC. . .).
FT CARBOHYD 170 170 N-LINKED (GLCNAC. . .).
FT CARBOHYD 305 305 N-LINKED (GLCNAC. . .).
FT MOD RSS 12 12 PHOSPHORYLATION.
FT VARSPIC 24 42 Missing (in isoform 2 and isoform 3).
FT VARSPIC 86 /FTId=VSP_003060.
FT VARSPIC 86 Missing (in isoform 3).
FT VARSPIC 86 /FTId=VSP_003061.
SQ SEQUENCE 311 AA; 35191 MW; 82C78FEC8FBA316 CRC64;

Query Match 11.6%; Score 146; DB 1; Length 311;
Best Local Similarity 26.1%; Pred. No. 5.7e-06;
Matches 40; Conservative 30; Mismatches 69; Indels 14; Gaps 5;

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QY 192 NMNCAVH-NXKMHPTFCENKHYLMCRKAGMT 223  
 DB 275 SEDCEVEQPDGRWDDFCLOQYRWVCEKRENAT 307

RESULT 32

LECH RAT STANDARD; PRT; 283 AA.

AC P02706;  
 DT 21-JUL-1996 (Rel. 01, Created)  
 DT 13-AUG-1987 (Rel. 05, Last sequence update)  
 DT 30-MAY-2000 (Rel. 39, Last annotation update)  
 DE Asialoglycoprotein receptor 1 (Hepatic lectin 1) (RHL-1) (ASGP-R) (ASGP-R)  
 GN ASGP1 OR ASGP-1.  
 OS Rattus norvegicus (Rat).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
 NC NCBI\_TaxId=10116;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=8608335; PubMed=2995379;  
 RA Leung J.O., Holland E.C., Drickamer K.;  
 RT "Characterization of the gene encoding the major rat liver asialoglycoprotein receptor."  
 RL J. Biol. Chem. 260:12523-12527 (1985).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=8608335; PubMed=2995379;  
 RA Leung J.O., Holland E.C., Drickamer K.;  
 RT "Characterization of the gene encoding the major rat liver asialoglycoprotein receptor."  
 RL J. Biol. Chem. 260:12523-12527 (1985).  
 RN [3]  
 RP SEQUENCE OF 11-283 FROM N.A.  
 RX MEDLINE=87026895; PubMed=2945599;  
 RA Watts C.;  
 RT "Isolation and expression of cDNA clones for a rat liver asialoglycoprotein receptor."  
 RL Biosci. Rep. 6:527-534 (1986).  
 CC -1- FUNCTION: MEDIATES THE ENDOCYTOSIS OF PLASMA GLYCOPROTEINS TO WHICH THE TERMINAL SIALIC ACID RESIDUE ON THEIR COMPLEX CARBOHYDRATE MOIETIES HAS BEEN REMOVED. THE RECEPTOR RECOGNIZES TERMINAL GALACTOSE AND N-ACETYLGLACTOSAMINE UNITS. AFTER LIGAND BINDING TO THE RECEPTOR, THE RESULTING COMPLEX IS INTERNALIZED AND TRANSPORTED TO A SORTING ORGANELLE, WHERE RECEPTOR AND LIGAND ARE DISASSOCIATED. THE RECEPTOR THEN RETURNS TO THE CELL MEMBRANE SURFACE.  
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.  
 CC -1- TISSUE SPECIFICITY: EXPRESSED EXCLUSIVELY IN HEPATIC PARENCHYMAL CELLS.  
 CC -1- MISCELLANEOUS: CALCULUM IS REQUIRED FOR LIGAND BINDING.  
 CC -1- IDENTIFIED, RHL-1 AND RHL-2/3, HAVING A RELATIVE ABUNDANCE OF 4:1.  
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.  
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 CC EMBL; K02817; AAA42037.1; -  
 CC EMBL; M21770; AAA40764.1; -  
 CC PIR; A92497; INRIL.  
 CC RASBP; P20693; 1HLJ.  
 CC InterPro; IPR002353; AntiFreeze1.  
 CC InterPro; IPR01304; Lectin\_C.  
 CC InterPro; IPR005640; Lectin\_N.  
 CC Pfam; PF00059; Lectin\_C; 1.

DR Pfam; PF03954; Lectin\_N; 1.  
 DR PRINTS; PRO0356; ANTI-FREEZE1.  
 DR SMART; SM00034; CLECT; 1.  
 DR PROSITE; PS00615; C-TYPE LECTIN 1; 1.  
 DR PROSITE; PS50041; C-TYPE LECTIN 2; 1.  
 KM Lectin: Glycoprotein; Receptor; Endocytosis; Transmembrane; Calcium; Signal-anchor; Phosphorylation.  
 FT INIT MET 0  
 FT DOMAIN 1 38  
 FT TRANSMEM 39 59  
 FT DOMAIN 60 283  
 FT DOMAIN 151 277  
 FT SITE 4 7  
 FT DISULFID 152 163  
 FT DISULFID 180 275  
 FT DISULFID 253 267  
 FT CARBOHYD 74 74  
 FT CARBOHYD 77 77  
 FT CARBOHYD 145 145  
 FT CONFLICT 60 60  
 SQ SEQUENCE 283 AA; 32718 MW; 3BA2631A5E28A993 CRC64;

Query Match 11.5%; Score 145.5; DB 1; Length 283;  
 Best Local Similarity 25.6%; Pred. No. 5,7e-06;  
 Matches 44; Conservative 23; Mismatches 82; Indels 17; Gaps 6;

QY 62 IODENENRGTLOQLARPCQYVYKSELKPTGKHGKSPCDTNMRYGDCYGFRRHL 121  
 DB 114 IREDHSRLHLVHQLVSDVSLSCQMAALFNGSERIC-CPTNWVEEGSCYFSSSVK 171  
 QY 122 TWESKQYCDVNAATLKIDNRNIVETKART-HILRWGLSOKSVEWKWDGYSIE 180  
 DB 172 PWTBADRYCOLENAHVVTWSWEEQRFVQHMGPUNTWISLTQ--NGPKMWDGTDY-E 228

QY 181 NMEFLEDEGK-----GNKNCAVE-HNGKMHPTFCENKHYLMCRKAGMT 221  
 DB 229 TGKKNWRRPGQPDWYGHGCGGDCAHFTTIDGWMNDVCRPRRWVCE1BLG 280

RESULT 33

KLR2 MOUSE STANDARD; PRT; 288 AA.

AC Q06060;  
 DT 01-NOV-1997 (Rel. 35, Created)  
 DT 16-OCT-2001 (Rel. 40, Last sequence update)  
 DT 16-OCT-2001 (Rel. 40, Last annotation update)  
 DE Killer cell lectin-like receptor 2 (T-cell surface glycoprotein LY-49B) (LY49-B antigen).  
 GN KLR2 OR LY49B OR LY49-B.  
 OS Mus musculus (Mouse).  
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 NC NCBI\_TaxId=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX STRAIN=C57BL/6 X CBA; TISSUE=Lung;  
 RX MEDLINE=9132455; PubMed=1865832;  
 RA Wong S., Freeman U.D., Kelleher C., Yeager D., Takei F.;  
 RT "Ly-49 multigene family. New members of a superfamily of type II membrane proteins with lectin-like domains."  
 RL J. Immunol. 147:1417-1423 (1991).  
 CC -1- FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR CLASS I MHC.  
 CC -1- SUBUNIT: Homodimer; disulfide-linked.  
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.  
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.  
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CC		or sendan email to: license@jdb-sib.ch).	
CC		-----	
DR	EMBL; U10304; AAA19052.1; -.		
DR	PIR; I49058; I49058.		
DR	MGI; MGI:101906; K1ra2.		
DR	InterPro; IPR001304; Lectin_C.		
DR	Pfam; PF00059; lectin c; 1.		
DR	SMART; SMART0034; CLECT_1.		
DR	PROSITE; PS00615; C_Type_Lectin_1; FALSE_NEG.		
DR	PROSITE; PS50041; C_Type_Lectin_2; 1.		
KM	T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;		
KW	Signal-anchor; Lectin; Receptor; Multigene family.		
FT	DOMAIN 1 45 CYTOPLASMIC (POTENTIAL).		
FT	TRANSMEM 46 66 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)		
FT	(POTENTIAL).		
FT	EXTRACELLULAR (POTENTIAL).		
FT	C-TYPE LECTIN (LONG FORM).		
FT	DISELFD 173 259 BY SIMILARITY.		
FT	DISELFD 238 251 BY SIMILARITY.		
FT	CARBOHYD 94 N-LINKED (GLCNAC . .) (POTENTIAL).		
FT	CARBOHYD 105 105 N-LINKED (GLCNAC . .) (POTENTIAL).		
FT	CARBOHYD 114 114 N-LINKED (GLCNAC . .) (POTENTIAL).		
FT	CARBOHYD 177 177 N-LINKED (GLCNAC . .) (POTENTIAL).		
SQ	SEQUENCE 288 AA; 33607 MW; B3A410A32DF582F CRC64;		
	Query Match 11.4%; Score 144; DB 1; Length 288;		
	Best Local Similarity 21.0%; Pred. No. 8e-06;		
	Matches 49; Conservative 38; Mismatches 90; Indels 56; Gaps 8;		
OY	30 KRWAALLILLIC-VGVTVGIVAGIGISVMQRNYIDENENRTGITLOLRFCQVVKQ 87		
DB	: : :     :		
OY	43 WKFIYIVGIIICETLLITVAVLVIHIFRDGQKKEQEK-----TLNNLRQEV-QVMKND 95		
OY	88 SELKTFEGHCSPC-----DINNRYGDS 112		
DB	: :		
OY	96 SLWEZMLRNKSSEKKALNDSLHYANRRCRLRKTKYLDCSQNKQKVQBSYFFCCGK 155		
OY	113 CYGFPHNLTWESRKYCTDMATLLKIDNRNIYERAKTHL-IRVAGLSROKSNERYWK 171		
DB	: : :      :		
OY	156 CYGFIMDKKNWGKCQIQDYVLTLLKTNDEDELKFMSQQRNTYWVSLTHNSK---- 211		
OY	172 WEDGSVIDENNFEFLDGKN-----MKAYIHNGKMPTEPCENGHYLMCEK 219		
DB	: :		
OY	212 -EBSQIDIPRSK-LDSARRASVPNRQCAVYSFSTBEDCARHGTCCEK 262		
	RESULT 34		
	PA2R_RABIT STANDARD; PRT; 1458 AA.		
AC	P49260;		
DT	01-FEB-1996 (Rel. 33, Created)		
DT	01-FEB-1996 (Rel. 33, Last sequence update)		
DT	15-JUL-1998 (Rel. 36, Last annotation update)		
DE	180 kDa secretory phospholipase A2 receptor precursor (PLA2-R).		
OC	Oryctolagus cuniculus (Rabbit)		
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;		
OC	Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.		
OX	NCBI_TaxID=9986;		
RN	(1)		
RP	SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.		
RC	TISSUE=Skeletal muscle;		
RX	MEDLINE=94124484; PubMed=8294398;		
RA	Lambeau G.; Ancian P.; Barnhin J.; Lazdunski M.;		
RT	"Cloning and expression of a membrane receptor for secretory		
RU	phospholipases A2.";		
RU	J. Biol. Chem. 269:1575-1578(1994).		
CC	- FUNCTION: MAY HAVE A KEY ROLE IN NORMAL AND PATHOLOGICAL ACTIONS		
CC	OF SECRETORY PHOSPHOLIPASE A2. ALSO BINDS TO SNAKE PA2-LIKE		
CC	TOXINS.		
CC	- SUBCELLULAR LOCATION: Type I membrane protein.		
CC	- TISSUE SPECIFICITY: LONG, SKELETAL MUSCLE, BRAIN, KIDNEY AND		
CC	HEART.		
CC	- SIMILARITY: Contains 8 C-type lectin family domains.		

	-I- SIMILARITY: Contains 1 ricin B-type lectin domain.
CC	-----
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CC	entities requires a license agreement (see http://www.isb-slb.ch/announce/
CC	or send an email to license@isb-slb.ch).
CC	-----
DR	EMBL; U03455; AAC8402.1; .
DR	PIR; A49707; A49707.
DR	HSSD; P02751; 2NR2.
DR	InterPro; IPR000562; FN_type_II.
DR	InterPro; IPR001304; Lectin C.
DR	InterPro; IPR000772; Ricin_B_lectin.
DR	Pfam; PF00040; Fz2; 1.
DR	Pfam; PF00059; lectin_c; 8.
DR	Pfam; PF00652; Ricin_E_lectin; 1.
DR	ProDom; PD000995; FN_Type_III; 1.
DR	SMART; SMART0034; CLECT; 8.
DR	SMART; SMO0059; FN2; 1.
DR	SMART; SMO0458; RICIN; 1.
DR	PROSITE; PS00615; C_TYPE_LECTIN_1; 3.
DR	PROSITE; PSS0041; C_TYPE_LECTIN_2; 8.
DR	PROSITE; PSS0023; FIBONECTIN_2; 1.
DR	PROSITE; PS50231; RICIN_B_LECTIN; 1.
KW	Signal; Receptor; Transmembrane; Repeat; Glycoprotein; Lectin.
FT	SIGNAL
FT	CHAIN   1               23
FT	RECEPTOR.
FT	180 kDa SECRETORY PHOSPHOLIPASE A2
PT	DOMAIN   24   1393
PT	TRANSMEM
FT	TRANSMEM   1394   1416
FT	DOMAIN   1417   1458
FT	CYTOPLASMIC (POTENTIAL).
FT	RICIN B-TYPE LECTIN.
FT	FIBONECTIN TYPE-II.
FT	DOMAIN   49   113
FT	DOMAIN   165   220
FT	DOMAIN   227   356
FT	DOMAIN   374   502
FT	DOMAIN   511   645
FT	DOMAIN   660   798
FT	DOMAIN   815   939
FT	DOMAIN   954   1098
FT	DOMAIN   1117   1231
FT	DOMAIN   1243   1376
FT	DOMAIN   91   91
FT	CARBOND   408   408
FT	CARBOND   431   431
FT	CARBOND   452   452
FT	CARBOND   471   471
FT	CARBOND   482   482
FT	CARBOND   725   725
FT	CARBOND   778   778
FT	CARBOND   907   907
FT	CARBOND   981   981
FT	CARBOND   1054   1054
FT	CARBOND   1106   1106
FT	CARBOND   1121   1121
FT	CARBOND   1130   1130
FT	CARBOND   1319   1319
SEQ	SEQUENCE   1458 AA; 167199 MW; 68616306DAB9511 CRC64;
Query Match	11.4%; Score 143.5; DB 1; Length 1458;
Best Local Similarity	23.7%; Pred. No. 3.5e-05;
Matches   42;	Conservative   32; Mismatches   82; Indels   21; Gaps   6
Oy	55 SVMQSNVITQDENENETGTLQDLAKRFQYYVKQSFLKGTFGXHKHSCPCDTNWRYYGDSCY 114
Db	333 SEMPRAM---ESRNSESTLPFYCKYLNVHDDEIVKDAWK-YUATDCPGMAPYHRNCY 389
Oy	115 GFRRNLTWBSKKVCYTDMATLKIKIDNRIVEYI-----KARTHIIRNWGLSRÖKS 166
Db	389 KLÖKEKRWNALHSCLSSNSTLLDIGSLAEVEFPLVTLLGNMASET---WTGLSSNTF 444

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QY 167 NEWMKEDGSAVISNNPFLD---GKNNMCAYFHNGKME--PTFCNKHYLMCER 218
DB 445 EVSFEWNGSSVFTFTNHTLTPQIFPRSQLCVASBSEGMKVTDCFEHFVYCKK 501

RESULT 35
KLR7 MOUSE STANDARD; PRT: 280 AA.
ID KLR7 MOUSE
AC Q60654; Q60655; Q60656; Q60683;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Killer cell lectin-like receptor 7 (T-cell surface glycoprotein
  LY-49c) (LY49-G antigen).
GN KLR7 OR LY49G OR LY-49G OR LY49-G OR LY49G4.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxId=10090;

[1]
SEQUENCE FROM N.A.
STRAIN=C57BL/6; TISSUE=Sp. een;
MEDLINE=94300068; PubMed=8027540;
RA Smith H.R.C., Karlhofer F.M., Yokoyama W.M.;
RT "Ly-49 multigene family expressed by IL-2-activated NK cells.";
RL J. Immunol. 153:1068-1079(1994).

[2]
SEQUENCE FROM N.A. (ISOFORM LY-49G.2).
STRAIN=B10.A;
MEDLINE=95053763; PubMed=7964501;
RA Brennan J., Mager D., Jefferies W., Takel F.;
RT "Expression of different members of the Ly-49 gene family defines
  distinct natural killer cell subsets and cell adhesion properties.";
RL J. Exp. Med. 180:2287-2295(1994).
CC -1- FUNCTION: RECEPTOR ON NATURAL KILLER (NK) CELLS FOR CLASS I MHC.
CC -1- SUBUNIT: Homodimer; disulfide-linked.
CC -1- SUBCELLULAR LOCATION: Type II membrane protein.
CC -1- ALTERNATIVE PRODUCTS:
  Event=Alternative splicing; Named isoforms=3;
  Name=Ly-49G.1; Sequence=Displayed;
  Name=Ly-49G.2; Sequence=VSP_003070;
  Name=Ly-49G.3; Sequence=VSP_003069;
  IsoId=Q60654-2; Sequence=VSP_003070;
  IsoId=Q60654-3; Sequence=VSP_003069;
  Name=Ly-49G.3; Sequence=VSP_003069;
  IsoId=Q60654-3; Sequence=VSP_003069;
-1- SIMILARITY: Contains 1 C-type lectin family domain.
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  or send an email to license@isb-sib.ch).
CC
CC EMBL; U10093; AAA50221.1; -
CC EMBL; U10094; AAA50222.1; -
CC EMBL; U10095; AAA50223.1; -
CC EMBL; U12890; AAA58705.1; -
CC PIR; I49052; I49052.
CC PIR; I49053; I49053.
CC PIR; I49054; I49054.
CC MGI; MGI:101901; Klr7.
CC InterPro: IPR001304; Lectin_C.
CC Pfam: PF00059; Lectin_C; 1.
CC SMART; SM00034; CLECT; 1.
CC PROSITE; PS00615; C_TYPE_LLECTIN_1; FAIS3_NEG.
CC PROSITE; PS00641; C_TYPE_LLECTIN_2; 1.
CC T-cell; Glycoprotein; Antigen; Transmembrane; Cell adhesion;
CC Signal-anchor; Lectin; Receptor; Multigene family;
CC Alternative splicing
CC DOMAIN 1 44 CYTOPLASMIC (POTENTIAL).
CC TRANSMEM 45 66 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN)

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FT DOMAIN 67 280 (POTENTIAL).
FT DOMAIN 156 275 EXTRACELLULAR (POTENTIAL).
FT DISULFID 185 271 C-TYPE LECTIN (LONG FORM).
FT DISULFID 250 263 BY SIMILARITY.
FT CARBOHYD 87 87 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 104 104 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 239 239 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT VARSPPLIC 117 193 Missing (in isoform Ly-49G.3).
FT VARSPPLIC 142 154 /Prid=VSP_003069.
FT VARSPPLIC 142 154 Missing (in isoform Ly-49G.2).
FT CONFLICT 44 44 /Prid=VSP_003070.
FT CONFLICT 44 44 K -> Q (IN REF. 2).
SQ SOURCE 280 AA; 32522 MW; 470442087D5E83FB CRC64;

Query Match 11.2%; Score 141.5; DB 1; Length 280;
Best Local Similarity 21.1%; Pred. No. 1.3e-05;
Matches 53; Conservative 45; Mismatches 88; Indels 65; Gaps 10;

QY 30 WRVVALILILIC--VGVVGLVVALGIVSWQRYV-----LQDE-- 65
DB 43 WKLIIVAGGILCFELVLTVALITTFQHQQHHELOFTLNCNDGSPQSYNKLDEL 102
QY 66 -----NENR-----TGLQQLARPCQVYVQKSLKGTFFGHKCSPC 102
DB 103 RNKSIKCPGNDLLESISRQKRWYSGTKTFSDSQHTGVHERPISXAEKGKGF----- 157
QY 103 DITWRYYGDSGCFEFRNLTWSESKQCTDMNATLKIDNRNVEYIK-ARTHLIRVWGL 161
DB 158 EKKTPCVGLICFYFNMDRKTWGSGKQTCQISSLSLKINDEDELKFLQNALPSPDISWGL 217
QY 162 SROKSNVWMEWGDS--SVISENNFEF-TEDGKNNMCAYFHNGKMEPTFCNKHYLMCER 218
DB 218 SYNNKKKDWVINDGPEKSLNNTKYNIRGL-----CWSLSTKRLDNGDCDKSYICICGK 273
QY 219 KAGTKYVDLP 229
DB 274 -----RDKRP 279

RESULT 36
KNG2 PANTR STANDARD; PRT: 240 AA.
ID KNG2 PANTR
AC Q95M14; Q95M13;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE KNG2-2 type II integral membrane protein (KNG2-E activating NK
  receptor) (NK cell receptor E).
GN KLR3 OR NKG2E.
OS Pan troglodytes (Chimpanzee).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pan.
OX NCBI_TaxId=9598;

[1]
SEQUENCE FROM N.A. AND VARIANT ARG-213.
MEDLINE=21623889; PubMed=11751968;
Shum B.P., Flodin L.R., Muir D.G., Rajalingam R., Krakoo S.I.,
Cleveland S., Guehllein L.A., Uhrberg M., Parham P.;
"Conservation and variation in human and common chimpanzee CD94 and
  NK2 genes.";
J. Immunol. 168:240-252(2002).
-1- FUNCTION: PLAYS A ROLE AS A RECEPTOR FOR THE RECOGNITION OF MHC
  CLASS I HLA-E MOLECULES BY NK CELLS AND SOME CYTOTOXIC T-CELLS.
-1- SUBUNIT: CAN FORM DISULFIDE-BONDED HETERODIMER WITH CD94.
-1- TISSUE SPECIFICITY: NATURAL KILLER CELLS.
-1- SIMILARITY: Contains 1 C-type lectin family domain.
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CC -----

DR EMBL; AF350006; AK83793.1; -  
 DR EMBL; AF350007; AK83794.1; -  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; lectin\_c; 1.  
 DR SMART; SMO0034; CLECT; 1.  
 DR PROSITE; PS00615; C-TYPE\_LLECTIN\_1; FALSE\_NEG.  
 DR PROSITE; PS50041; C-TYPE\_LLECTIN\_2; 1.  
 KW Receptor; Transmembrane; Multigene family; Signal-anchor; Lectin;  
 KW Glycoprotein; Polymorphism.  
 FT DOMAIN 1 70  
 FT TRANSMEM 71 93  
 FT PROSITE 94 240  
 FT DOMAIN 116 230  
 FT DISULFID 117 128  
 FT DISULFID 207 220  
 FT VARIANT 213 213  
 SQ SEQUENCE 240 AA; 26996 MW; BC28FB3CEA93A5B0 CRC64;

Query Match 11.1%; Score 140.5; DB 1; Length 240;  
 Best Local Similarity 22.9%; Pred. No. 1.3e-05;  
 Matches 39; Conservative 28; Mismatches 74; Indels 29; Gaps 5;

QY 31 RYMAILLILCYGMVGVVAGLGVNMQNRYIQDENRRTGLQGLAKRFQYVYKQSEL 90  
 DB 70 KLTAAWLGITCTVLSAVLK---TIVIPLEQNNSSENRQ----- 109  
 QY 91 KQTFGKXKPCDQWRYGDSQYGFPHNLFWESKQYCTDM-ATLLKIDNRIVAYI 149  
 DB 110 ----KARPGCHPEPMITYSNCTYIGKERTWESLQACASNSSLLSIDNEEMKFL 165  
 QY 150 KARTHLIRWGLSRQKSNVWEMEDGSVISENFEFLDEGKNNCAVYH 199  
 DB 166 -ASLPSWIGVFCNSSHHPWTINGLAFK---ELKSDHAERNCAMH 211

RESULT 37  
 LECH HUMAN STANDARD; PRT; 290 AA.  
 AC P07306;  
 DT 01-APR-1988 (Rel. 07, Created)  
 DT 01-APR-1988 (Rel. 07, Last sequence update)  
 DT 15-SEP-2003 (Rel. 42, Last annotation update)  
 DE Asialoglycoprotein receptor 1 (Hepatic lectin II) (ASGPR) (ASGP-R).  
 GN ASGRL.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
 OC NCST\_TaxID=9606;  
 RN 11  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=85130911; PubMed=2982798;  
 RA Spiess M., Schwartz A.L., Lodish H.F.;  
 RT "Sequence of human asialoglycoprotein receptor cDNA. An internal  
 RT signal sequence for membrane insertion."  
 RL J. Biol. Chem. 260:1979-1982(1985).  
 RN 12  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=86079574; PubMed=3753585;  
 RA Spiess M., Lodish H.F.;  
 RT "An internal signal sequence: the asialoglycoprotein receptor membra-  
 RT anchor."  
 RL Cell 44:177-185(1986).  
 RN 13  
 RP SEQUENCE FROM N.A.  
 RA Wang H., Gao X., Li L., Lou H., Huang Y., Wang B., Han J.;  
 RT "Human asialoglycoprotein receptor 1 gene is expressed in SH-SY5Y  
 RT human neuroblastoma cells."  
 RL Submitted (SSP-2001) to the EMBL/GenBank/DBJ databases.

CC -1- FUNCTION: MEDIATES THE ENDOCYTOSIS OF PLASMA GLYCOPROTEINS TO  
 CC WHICH THE TERMINAL SIALIC ACID RESIDUE ON THEIR COMPLEX  
 CC CARBOHYDRATE MOIETIES HAS BEEN REMOVED. THE RECEPTOR RECOGNIZES  
 CC TERMINAL GALACTOSE AND N-ACETYLGALACTOSAMINE UNITS. AFTER LIGAND  
 CC BINDING TO THE RECEPTOR, THE RESULTING COMPLEX IS INTERNALIZED AND  
 CC TRANSPORTED TO A SORTING ORGANELLE, WHERE RECEPTOR AND LIGAND ARE  
 CC DISASSOCIATED. THE RECEPTOR THEN RETURNS TO THE CELL MEMBRANE  
 CC SURFACE.  
 CC -1- SUBCELLULAR LOCATION: Type II membrane protein.  
 CC -1- TISSUE SPECIFICITY: EXPRESSED EXCLUSIVELY IN HEPATIC PARENCHYMAL  
 CC CELLS.  
 CC -1- PMW: PHOSPHORYLATED ON A CYTOPLASMIC SER RESIDUE.  
 CC -1- MISCELLANEOUS: CALCIUM IS REQUIRED FOR LIGAND BINDING.  
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.  
 CC -----  
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DR EMBL; M10058; AA51785.1; -  
 DR EMBL; A3070933; BAB83508.1; -  
 DR PIR; A22509; LNHU1  
 DR PDB; 1DV8; 25-JUN-00  
 DR Genew; HGNC:742; ASGRL.  
 DR MIM; 108360; -  
 DR GO; GO:0005887; C:integral to plasma membrane; TAS.  
 DR GO; GO:0004873; F:asialoglycoprotein receptor activity; TAS.  
 DR GO; GO:0006898; P:receptor mediated endocytosis; TAS.  
 DR InterPro; IPR002353; Antifreezeit.  
 DR InterPro; IPR001304; Lectin\_C.  
 DR InterPro; IPR005640; Lectin\_N.  
 DR Pfam; PF00059; lectin\_c; 1.  
 DR Pfam; PF03954; lectin\_N; 1.  
 DR PRINTS; PR00356; ANTIFREEZE2II.  
 DR SMART; SMO0034; CLECT; 1.  
 DR PROSITE; PS00615; C-TYPE\_LLECTIN\_1; 1.  
 DR PROSITE; PS50041; C-TYPE\_LLECTIN\_2; 1.  
 KW lectin; glycoprotein; Receptor; Endocytosis; Transmembrane; Calcium;  
 KW Signal-anchor; Phosphorylation; 3D-structure.  
 FT INIT MET 0  
 FT DOMAIN 1 39  
 FT TRANSMEM 40 60  
 FT PROSITE 61 290  
 FT DOMAIN 152 278  
 FT SITE 4 7  
 FT DISULFID 153 164  
 FT DISULFID 181 276  
 FT DISULFID 254 268  
 FT CARBOHYD 80 80  
 FT CARBOHYD 148 148  
 SQ SEQUENCE 290 AA; 33055 MW; B1897CEB3DAE1566 CRC64;

Query Match 11.0%; Score 138.5; DB 1; Length 290;  
 Best Local Similarity 22.3%; Pred. No. 2.5e-05;  
 Matches 60; Conservative 44; Mismatches 84; Indels 81; Gaps 15;

QY 19 LVSVGPASSFWMRYVATLILCY-----GMYVGVYAL 51  
 DB 42 LLSJG-----LSLLLVVVCYGSNSQLQELRLGRLREFFNSTAQVGLSTQ 53  
 QY 52 G-----LWSVQNRNYIQDENRRTGLQGLAKRF-----COYVVKQSELKGT 94  
 DB 94 GGNVGRKMKSLSESQLEKQO-KDLSHDHSSLILHV-KQFVSDRLSLSCQ---MAALQNG 147  
 QY 95 KGHKSPDQWRYGDSQYGFPHNLFWESKQYCTDMATLLKIDNRIVAYIKARH 154  
 DB 148 SEKTC-CPVNVWEHERSCYFSSRGKAWADADNYCRLEDLHVVTSTWEEKQFVO--H 202



QY 155 LI-----RWGLSRKSNVWKWEDGSVIS-----ENMEFFLEDS-KGNMCAVE-FH 200  
 DB 203 HIGEVNTWGLHDQ--NGPKWVDGTDYETGFKWREPDWDVGHGLGGEDCAHPTD 250  
 QY 201 GKMEPTFCENKHYLMCEKAKMTEKVDLP 229  
 DB 261 GRMNDVYQRPFRWCETE--LDKASQEP 287

## RESULT 38

KUCR MOUSE

ID KUCR MOUSE STANDARD; PRT; 548 AA.

AC P70194;

DT 01-NOV-1997 (Rel. 35, Created)

DT 01-NOV-1997 (Rel. 35, Last sequence update)

DT 28-FEB-2003 (Rel. 41, Last annotation update)

DE C-type lectin 13 (Xupifer cell receptor).

GN CLECSF13 OR KCLR.

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI\_TaxID=10090;

RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=BALB/c; TISSUE=Liver;

RA Takezawa R., Nagatsuma H., Nomoto C., Watanabe Y., Akaike T.;

RL Submitted (NOV-1996) to the EMBL/GenBank/DBJ databases.

CC -1 FUNCTION: RECEPTOR WITH AN AFFINITY FOR GALACTOSE AND FUCCOSE.

CC -1 SUBCELLULAR LOCATION: Type II membrane protein.

CC -1 TISSUE SPECIFICITY: XUPIFER CELLS.

CC -1 SIMILARITY: Contains 1 C-type lectin family domain.

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CC -----

CC EMBL: D88577; BAA13647.1; -

CC HSSP: P20693; 1HLJ.

CC MGI: MGI:1859634; Clec5f13.

CC InterPro: IPR002353; Antifreeze1.

CC InterPro: IPR001304; Lectin\_C.

CC Pfam: PF00059; Lectin\_c\_1.

CC PRINTS: PR00356; ANTI-FREEZE11.

CC SMART: SM00034; CLECT\_1.

CC PROSITE: PS00615; C-TYPE LECTIN 1; 1.

CC PROSITE: PS00641; C-TYPE LECTIN 2; 1.

CC Receptor; Transmembrane; Glycoprotein; Lectin; Signal-anchor;

KM Endocytosis.

FT DOMAIN 1 42

FT TRANSMEM 43 69

FT FT 69

FT FT 69

FT FT 69

FT DOMAIN 70 548

FT DISULFID 440 536

FT DISULFID 440 536

FT CARBOHYD 86 528

FT CARBOHYD 86 528

FT CARBOHYD 92 528

FT CARBOHYD 115 528

FT CARBOHYD 132 528

FT CARBOHYD 209 528

FT CARBOHYD 255 528

SQ SEQUENCE 348 AA; 61268 MW; 6F6495E820E73BD9 CRC64;

Query Match 10.9%; Score 138; DB 1; Length 548;  
 Best Local Similarity 26.9%; Pred. No. 5.7e-05;  
 Matches 32; Conservative 25; Mismatches 46; Indels 16; Gaps 5;  
 62 LODENENTRTTLQQLAKRFQYVVKSELKGTFFKHKSPCDENRYYGDSQCYGPFPHNL 121

DB 381 IGGS-QNRIGALQEA-----VAAKQKQKQK-QNVVLQILNOMKTFENGNYIFSRDK 431  
 QY 122 TWESKQYCTDMNATLTKIDNRN---IYEYIKARTE--RWGLSRKSNVWKWEDGS 176  
 DB 432 EWRBAEFCTSOAHILASVTSQEDAFIVOTSSGDH---WTGLTQGTGFWRWVDGT 487

## RESULT 39

CD69\_HUMAN

ID CD69\_HUMAN STANDARD; PRT; 199 AA.

AC 007108;

DT 01-OCT-1994 (Rel. 30, Created)

DT 01-OCT-1994 (Rel. 30, Last sequence update)

DT 15-SEP-2003 (Rel. 42, Last annotation update)

DE Early activation antigen CD69 (Early T-cell activation antigen p60)

DE (GP32/28) (Leu-23) (MIR-3) (EAI) (BL-AC/P26) (Activation inducer

DE molecule) (AIM).

GN CD69.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

OX NCBI\_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A.

RC TISSUE=Blood;

RA MEDLINE=93257093; PubMed=8496594;

RT "Expression cloning of the early activation antigen CD69, a type II

RT integral membrane protein with a C-type lectin domain."

RL J. Immunol. 150:4920-4927(1993).

RN [2]

RP SEQUENCE FROM N.A., AND SEQUENCE OF 96-103; 128-146 AND 189-199.

RC TISSUE=Blood;

RX MEDLINE=93340630; PubMed=8340758;

RA Lopez-Cabrera M., Santis A.G., Fernandez-Suiz E., Blacher R.,

RA Esch P., Sanchez-Mateos P., Sanchez-Madrid F.;

RT "Molecular cloning, expression, and chromosomal localization of the

RT human earliest lymphocyte activation antigen AIM/CD69, a new member

RT of the C-type animal lectin superfamily of signal-transmitting

RT receptors."

RL J. Exp. Med. 178:537-547(1993).

RN [3]

RP SEQUENCE FROM N.A.

RX MEDLINE=93314711; PubMed=8100776;

RA Ziegler S.F., Ramsdell F., Hjerrild K.A., Arnltage R.J.;

RA Gadsstein K.H., Hernen K.B., Parrish T., Fanslow M.C., Shevach E.M.,

RA "Molecular characterization of the early activation antigen CD69: a

RT type II membrane glycoprotein related to a family of natural killer

RT cell activation antigens."

RL Eur. J. Immunol. 23:1643-1648(1993).

RN [4]

RP SEQUENCE FROM N.A.

RC TISSUE=Placenta;

RX MEDLINE=94298875; PubMed=8026529;

RA Santis A., Lopez-Cabrera M., Hamann U., Straus M., Sanchez-Madrid F.;

RT "Structure of the gene coding for the human early lymphocyte

RT activation antigen CD69: a C-type lectin receptor exclusively

RT related with the gene families of natural killer cell-specific

RT receptors."

RL Eur. J. Immunol. 24:1692-1697(1994).

RN [5]

RP SEQUENCE FROM N.A.

RX MEDLINE=92388257; PubMed=12477932;

RA Klausner R.D., Collins F.S., Wagner L., Shehmen C.M., Schuler G.D.,  
 RA Altschul S.F., Zeeberg B., Buelow K.H., Schaefer C.F., Bhat N.K.,  
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,  
 RA Ditschenko L., Maruina K., Farmer A.A., Rubin G.M., Hong L.,  
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Schetz T.E.,  
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA	Bosa S.S., Logguelano N.A., Peters G.J., Aramson R.D., Mullaly S.J.,
RA	Roark S.A., Morban P.J., McKernan K.J., Malek J.A., Gumatre P.H.,
RA	Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.C., Halyk S.W.,
RA	Villalon D.K., Muzny D.M., Soedergren E.J., Lu X., Gibbs R.A.,
RA	Faley J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
RA	Whiting R.W., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA	Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA	Rodriguez A.C., Grimwood J., Schmutz J., Myers R.N.,
RA	Butcherfield Y.S.N., Krzywinski M.I., Skalska U., Smalins D.E.,
RA	Schmerch A., Schein J.E., Jones S.J.M., Marra M.A.,
RT	"generation and initial analysis of more than 15,000 full-length
RT	human and mouse cDNA sequences.";
RT	Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC	-1- FUNCTION: INVOLVED IN LYMPHOCYTE PROLIFERATION AND FUNCTIONS AS A
CC	SIGNAL TRANSMITTING RECEPTOR IN LYMPHOCYTES, NATURAL KILLER (NK)
CC	CELLS, AND PLASMLETS.
CC	-1- SUBUNIT: Homodimer; disulfide-linked.
CC	-1- SUBCELLULAR LOCATION: Type II membrane protein.
CC	-1- TISSUE SPECIFICITY: EXPRESSED ON THE SURFACE OF ACTIVATED T CELLS,
CC	B-CELLS, NATURAL KILLER CELLS, NEUTROPHILS, EOSINOPHILS, EPIDERMAL
CC	LANGEHANS CELLS AND PLASMLETS.
CC	-1- DEVELOPMENTAL STAGE: EARLIEST INDUCIBLE CELL SURFACE GLYCOPROTEIN
CC	ACQUIRED DURING LYMPHOID ACTIVATION.
CC	-1- INDUCTION: BY ANTIGENS, MITOGENS OR ACTIVATORS OF PKC ON THE
CC	SURFACE OF T AND B LYMPHOCYTES. BY INTERACTION OF IL-2 WITH THE
CC	PT5 IL-2R ON THE SURFACE OF NK CELLS.
CC	-1- PTM: CONSTITUTIVE SER/THR PHOSPHORYLATION IN BOTH MATURE
CC	THYMOCYTES AND ACTIVATED T LYMPHOCYTES.
CC	-1- SIMILARITY: Contains 1 C-type lectin family domain.
CC	-1- DATABASE: NAME=PROV; NOTE=CD guide CD69 entry;
CC	WWW="http://www.ncbi.nlm.nih.gov/prov/cd/cd69.htm".
CC	-----
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CC	-----
DR	EMBL; L07555; AAB46359.1; -;
DR	EMBL; Z22576; CAA80298.1; -;
DR	EMBL; Z30426; CAA83017.1; -;
DR	EMBL; Z30430; CAA83017.1; JOINED.
DR	EMBL; Z30427; CAA83017.1; JOINED.
DR	EMBL; Z30429; CAA83017.1; JOINED.
DR	EMBL; Z30428; CAA83017.1; JOINED.
DR	EMBL; BC007037; AA007037.1; -;
DR	PIR; JH0822; JH0822.
DR	PDB; 1E87; 24-OCT-00.
DR	PDB; 1E81; 26-SEP-00.
DR	GeneW; HGNC:1694; CD69.
DR	MIN; I07273; -;
DR	GO; GO:0005887; C:Integral to plasma membrane; TAS.
DR	GO; GO:0004888; F:transmembrane receptor activity; TAS.
DR	InterPro; IPR001304; Lectin_C.
DR	Pfam; PF00059; lectin c; 1.
DR	SMART; SM00034; CLECT_1.
DR	PROSITE; PS00615; C_TYPE_LLECTIN_1; FALSE_NEG.
DR	PROSITE; PS50041; C_TYPE_LLECTIN_2; 1.
DR	Antigen; B-cell; GLYCOPROTEIN; Transmembrane; Lectin; Signal-anchor;
KW	Phosphorylation; 3D-structure.
FT	DOMAIN 1 40
FT	TRANSMEM 41 61
FT	FT
FT	DOMAIN 62 199
FT	DOMAIN 67 199
FT	DISULFID 68 85
FT	DISULFID 96 124
FT	DISULFID 173 186
FT	CARBOHYD 166 166
QO	SEQUENCE 199 AA; 22559 MW; 172E2699D2F8BDF8 CRC64;

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Query Match      10.98; Score 137.5; DB 1; Length 199;
Best Local Similarity 26.0%; Pred. No. 2e-05;
Matches 32; Conservative 21; Mismatches 57; Indels 13; Gaps 5;

QY          100 SPQDTMRYRGDSGSGFFRNLTWESKQVCTDMATLTLCKNRIYEIK---AATHL 155
              :|::|||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db           83 SSCSEBWDVGQRKKYFTSTVKRWTSHQNACSHGATLAVIDSKOMFLKRAGREEH - 141
               |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY          156 IRWWGLSRKSNENWEKEDSDVISENNPFEEIDGKNMNCAVFENGGMHPFCENKYLM 215
               |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db          142 --WGGLAKKEGHF-MKRSNGKERF-NMFNV----TGS DKCVFLKNTVESSNECHKRLYWI 193
               |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY          216 CER 218
              |:
Db          194 CNK 196

RESULT 40
PGCV_BOVIN STANDARD; PRF; 3381 AA.
AC P81282; 077609; 077610; 077611; 077612;
AD 15-DEC-1998 (Rel. 37, Created)
DT 15-OCT-2001 (Rel. 40, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Versican core protein precursor (Large fibroblast proteoglycan)
DE (Chondroitin sulfate proteoglycan core protein 2) (Pg-M) (Glial
DE hyaluronate-binding protein) (GHAP).
GN PCPG2.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Bovinae; Bos.
OX NCBI_Taxid=9913;
[1]
RE SEQUENCE FROM N.A. (ISOFORMS VO; V1, V2 AND V3).
RC TISSUE=Forebrain; Pubmed=5624174;
RX MEDLINE=98286320; PubMed=1720020;
RA Schmalfeldt M., Dours-Zimmermann M.T., Winterhalter K.H.,
RA Zimmermann D.R.;
RT "Versican V2 is a major extracellular matrix component of the mature
RT bovine brain.";
RL J. Biol. Chem. 273:15758-15764(1998).
[2]
RE SEQUENCE OF 21-53; 78-96; 226-250; 262-277; 295-306; 314-324; 329-331
RP AND 342-348.
RC TISSUE=Spinal cord;
RX MEDLINE=92062692; Pubmed=1720020;
RA Perides G., Biviano Z., Sigmami A.;
RT "Interaction of a brain extracellular matrix protein with hyaluronic
RT acid.";
RL Blochm. Biophys. Acta 1075:248-258(1991).
CC -!- FUNCTION: May play a role in intracellular signaling and in
CC connecting cells with the extracellular matrix. May take part in
CC the regulation of cell motility, growth and differentiation. binds
CC hyaluronic acid.
CC -!- SUBUNIT: Interacts with FBLN1 (By similarity).
CC -!- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=4;
CC Comment=Additional isoforms seem to exist;
CC Name=V0;
CC IsoId=P81282-1; Sequence=Displayed;
CC Name=V1;
CC IsoId=P81282-2; Sequence=VSP_003078, VSP_003079;
CC Name=V2;
CC IsoId=P81282-3; Sequence=VSP_003080;
CC Name=V3;
CC IsoId=P81282-4; Sequence=VSP_003078, VSP_003081;
CC -!- TISSUE SPECIFICITY: Cerebral white matter. V0 and V1 are expressed
CC in the central nervous system, and in a number of mesenchymal and
CC epithelial tissues; the major isoform V2 is restricted to the
CC central nervous system.
CC -!- DEVELOPMENTAL STAGE: Disappears after the cartilage development

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CC (By similarity).
CC -1- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -1- SIMILARITY: Contains 2 link domains.
CC -1- SIMILARITY: Contains 2 EGF-like domains.
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.
CC -1- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -1- SIMILARITY: BELONGS TO THE AGGRECAN/VERSICAN PROTEOGLYCAN FAMILY.
CC -----
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CC -----
DR EMBL; AF060456; AAC24358.1; -
DR EMBL; AF060457; AAC24359.1; -
DR EMBL; AF060458; AAC24360.1; -
DR EMBL; AF060459; AAC24361.1; -
DR PIR; T14274; T14274.
DR PIR; T42389; T42389.
DR HSSP; P01132; 1EBG.
DR InterPro; IPR000152; Asx_hydroxyl.
DR InterPro; IPR000742; EGF_2.
DR InterPro; IPR001881; EGF_CA.
DR InterPro; IPR006209; EGF-like.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR001304; Lectin_C.
DR InterPro; IPR000538; Link.
DR InterPro; IPR000436; Sushi_SCR_CCP.
DR Pfam; PF00047; Ig_1.
DR Pfam; PF00059; lectin_c_1.
DR Pfam; PF00084; sushi_1.
DR Pfam; PF00193; Xlink_2.
DR PRINTS; PR01265; LINKMODULE.
DR PRINTS; PR00356; ANTIFREEZEII.
DR ProDom; PD000918; Link_2.
DR SMART; SM00032; CCP_1.
DR SMART; SM00034; CLECT_1.
DR SMART; SM00179; EGF_CA_1.
DR SMART; SM00445; Link_2.
DR PROSITE; PS00010; ASX_HYDROXYL_1.
DR PROSITE; PS00615; C-TYPE_LECTIN_1_1.
DR PROSITE; PS00041; C-TYPE_LECTIN_2_1.
DR PROSITE; PS00022; EGF_1_2.
DR PROSITE; PS01186; EGF_2_1.
DR PROSITE; PS01187; EGF_CA_1.
DR PROSITE; PS00835; IG_LIKE_1.
DR PROSITE; PS01241; LINK_2.
KW Glycoprotein; Proteoglycan; Lectin; Extracellular matrix; Sushi;
KW Signal; Repeat; EGF-like domain; Calcium; Immunoglobulin domain;
KW Hyaluronic acid; Alternative splicing.
KW SIGNA1
FT CHAIN 21 3381 VERSICAN CORE PROTEIN.
FT DOMAIN 21 147 IG-LIKE V-TYPE.
FT DOMAIN 168 245 LINK 1.
FT DOMAIN 266 347 LINK 2.
FT DOMAIN 349 1336 GAG-ALPHA
FT (GLUCOSAMINOGLYCAN ATTACHMENT DOMAIN).
FT DOMAIN 1337 3074 GAG-BETA.
FT DOMAIN 3074 3110 EGF-LIKE 1.
FT DOMAIN 3112 3148 EGF-LIKE 2, CALCIUM-BINDING.
FT DOMAIN 3161 3275 C-TYPE LECTIN.
FT DOMAIN 3280 3338 SUSHI.
FT DISULFID 44 131 BY SIMILARITY.
FT DISULFID 173 244 BY SIMILARITY.
FT DISULFID 197 218 BY SIMILARITY.
FT DISULFID 271 346 BY SIMILARITY.

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FT DISULFID 295 316 3Y SIMILARITY.
FT DISULFID 3078 3089 BY SIMILARITY.
FT DISULFID 3083 3098 BY SIMILARITY.
FT DISULFID 3100 3109 BY SIMILARITY.
FT DISULFID 3116 3127 BY SIMILARITY.
FT DISULFID 3121 3136 BY SIMILARITY.
FT DISULFID 3138 3147 BY SIMILARITY.
FT DISULFID 3154 3165 3Y SIMILARITY.
FT DISULFID 3182 3274 BY SIMILARITY.
FT DISULFID 3250 3266 BY SIMILARITY.
FT DISULFID 3281 3324 BY SIMILARITY.
FT DISULFID 3310 3337 BY SIMILARITY.
FT CARBOHYD 57 57 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 331 331 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 352 352 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 817 817 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 965 965 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 1017 1017 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 1333 1333 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 1393 1393 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 1437 1437 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 1463 1463 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 1653 1653 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 1974 1974 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 2045 2045 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 2074 2074 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 2103 2103 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 2263 2263 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 2290 2290 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 2356 2356 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 2623 2623 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 2641 2641 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 2919 2919 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 3052 3052 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 3354 3354 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 3364 3364 N-LINKED (GLCNAC...) (POTENTIAL)
FT CARBOHYD 349 349 P -> R (in isoform V1 and isoform V3).
FT VASPLIC 350 1336 Missing (in isoform V1).
FT VASPLIC 1337 3074 /FtId=VSP_003079.
FT VASPLIC Missing (in isoform V2).
FT VASPLIC Missing (in isoform V3).
FT VASPLIC 350 3074 /FtId=VSP_003081.
FT CONFLICT 25 25 MISSING (IN REF. 2).
FT CONFLICT 51 51 MISSING (IN REF. 2).
FT CONFLICT 89 89 N -> D (IN REF. 2).
FT CONFLICT 96 96 Q -> D (IN REF. 2).
FT CONFLICT 346 346 C -> R (IN REF. 2).
SQ SEQUENCE 3381 AA; 36984 MW; F09716FA7778D459 CRC64;

Query Match 10.7%; Score 135; DB 1; Length 3381;
Best local Similarity 24.6%; Prec. No. 0.00082;
Matches 33; Conservative 23; Mismatches 70; Indels 8; Gaps 3;

QY 102 CDTWRRYYGDSGCFPRNLTWERSKQVCTDMATLTXIDNRNIVETVYKATHTLIRVGL 161
DB 3154 CDYGMHKQGCQYKFAIRRTWDAERCRIGQNLITLSHNEQMGVNRVGHDIYQWIGL 3213
QY 162 SRQSNSEYWKWEDGSVIS-ENK-----PEFLDGKGMNKGAYFNGKGNHPRFCEKHKHLM 215
DB 3214 NDKMEHDFRMTDSTLTQYEWWRPNQDPSPSTGEDCVVITMHEGQNDVPC--NYHLT 3271
QY 216 CERKAGMTKVQLP 229
DB 3272 YTCRKGTVACGQPP 3285

RESULT 41
ID PGCV RAT STANDARD. PRT. 2738 AA.
AC Q9ERB4; 008592; 088564; Q9R1K4;
DT 16-OCT-2001 (Rel. 40; Created)

```

DT 16-OCT-2001 (Rel. 40, Last sequence update)  
DT 15-SEP-2003 (Rel. 42, Last annotation update)  
DE Versican core protein precursor (Large fibroblast proteoglycan)  
DE (Chondroitin sulfate proteoglycan core protein 2) (Pg-M) (Glia1  
DE hyaluronate-binding protein) (GHAAP) (Fragments).  
GN CSFG2.  
OS Rattus norvegicus (Rat).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
OX NCBI\_TaxID=10116;  
RN [1]  
RP SEQUENCE OF 349-2738 FROM N.A. (ISOFORM V0), SEQUENCE FROM N.A.  
RP (ISOFORM V3), AND SEQUENCE OF 2657-2738 FROM N.A. (ISOFORM V1NT).  
RC STRAIN=Wistar Kyoto.  
RX MEDLINE=99327053; PubMed=10397689;  
RA Lemire J.M., Brun K.R., Maurer P., Kaplan E.D., Schwartz S.M.,  
RA "Might T.N.",  
RT "Versican/Pg-M isoforms in vascular smooth muscle cells.",  
RL Arterioscler. Thromb. Biol. 19:1630-1639(1999).  
RN [2]  
RP SEQUENCE OF 349-2738 FROM N.A. (ISOFORM V0).  
RC STRAIN=Wistar Kyoto.  
RX MEDLINE=9808094; PubMed=9642104;  
RA Milev P., Maurer P., Chiba A., Mevissen M., Popp S., Yamaguchi Y.,  
RA Margolis R.K., Margolis R.U.,  
RT "Differential regulation of expression of hyaluronan-binding  
RT proteoglycans in developing brain: aggrecan, versican, neurocan, and  
RT brevican.",  
RL Biochem. Biophys. Res. Commun. 247:207-212(1998).  
RN [3]  
RP SEQUENCE OF 2421-2463 FROM N.A. (ISOFORM V0).  
RC TISSUE=Kidney;  
RX MEDLINE=98094159; PubMed=9434070;  
RA Pyke C., Kristensen P., Ostergaard P.B., Oturai P.S., Romer J.,  
RT "Proteoglycan expression in the normal rat kidney.",  
RL Nephron 77:461-470(1997).  
RN [4]  
RP SEQUENCE OF 2535-2738 FROM N.A.  
RC STRAIN=Sprague-Dawley; TISSUE=Lung;  
RA Blomberg L.A., Chan M.-Y., Clerch L., Massaro D.,  
RT "Molecular cloning and characterization of two developmentally  
RT regulated genes in rat lung.",  
RL Submitted (SEP-2000) to the EMBL/GenBank/DDBJ databases.  
CC -1- FUNCTION: May play a role in intercellular signaling and in  
CC connecting cells with the extracellular matrix. May take part in  
CC the regulation of cell motility, growth and differentiation. Binds  
CC hyaluronic acid.  
CC -1- SUBUNIT: Interacts with PELN1 (By similarity).  
CC -1- SUBCELLULAR LOCATION: Secreted; extracellular matrix.  
CC -1- ALTERNATIVE PRODUCTS:  
CC Event=Alternative splicing; Named isoforms=3;  
CC Comment=Additional isoforms seem to exist;  
CC Name=V0;  
CC IsoId=Q9ERB4-1; Sequence=Displayed;  
CC Name=V3;  
CC IsoId=Q9ERB4-2; Sequence=VSP\_003091;  
CC Name=V1nt;  
CC IsoId=Q9ERB4-3; Sequence=VSP\_003092;  
CC -1- TISSUE SPECIFICITY: In kidney is expressed in the papillary area,  
CC but not in glomeruli.  
CC -1- DEVELOPMENTAL STAGE: Disappears after the cartilage development  
CC (By similarity).  
CC -1- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.  
CC -1- SIMILARITY: Contains 2 EGF-like domains.  
CC -1- SIMILARITY: Contains 1 C-type lectin family domain.  
CC -1- SIMILARITY: Contains 1 Sushi (SCR) domain.  
CC -1- SIMILARITY: BELONGS TO THE AGGRECAN/VERSICAN PROTEOGLYCAN FAMILY.  
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[illegible]

```

FT CARBOHYD 1257 1257 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1435 1435 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1633 1633 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1660 1660 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1684 1684 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1738 1738 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1848 1848 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 2004 2004 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 2409 2409 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 2711 2711 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 2721 2721 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT VARSPPLIC 349 2431 Missing (in isoform V3).
FT VARSPPLIC 2697 2738 /FTID=VSP_003091.
FT VARSPPLIC 2697 2738 PSAYQRTYBKRKLNKSSVKNDSINTSKHEHNSRWQETR
FT CONFLICT 2535 2539 R -> KMSFRKNGQPCENKY (in isoform V1nt).
FT SEQUENCE 2738 AA; 300004 MW; 12CA626D58BD8C6A CRC64;
SQ SEQUENCE 2738 AA; 300004 MW; 12CA626D58BD8C6A CRC64;

Query Match 10.6%; Score 134; DB 1; Length 2738;
Best Local Similarity 24.6%; Pred. No. 0.0008;
Matches 33; Conservative 23; Mismatches 70; Indels 8; Gaps 3;

QY 102 CDTNMYRYGDSYGFPRHLTWESKQYCTDMATLLKIDNRIVYIKARTLLIRVGL 161
DB 2511 CDYGMKFGQGCYKFAHRRRTDAERECILQGHLLTSLSHBQMFVNRVGHIDYQWIGL 2570
QY 162 SRKSNKSEWKEWEDQSVIS-ENM-----FEFLDGKQKNCAYHNGKCHPTGCEHNYLM 215
DB 2571 NDRMFEDHFRWTDGSAIQYENMNPQPSFFSAGEEDCVVILIHENGGMDVPC--NYHLT 2628
QY 216 CERKAGMTKVDLP 229
DB 2629 YTCCKGTVAQGP 2642

RESULT 42
PGCV_MOUSE STANDARD; PRT; 3358 AA.
ID PGCV_MOUSE
AC Q62059; Q62058; Q9CUT0;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DS Versican core protein precursor (large fibroblast proteoglycan)
DS (Chondroitin sulfate proteoglycan core protein 2) (PG-M).
GN CSBG2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORMS V0, V1 AND V2).
RC STRAIN=C57BL/6; and Swiss Webster; TISSUE=Brain;
RX MEDLINE=95181355; PubMed=7876137;
RA Ito K., Shimomura T., Zako M., Ujita M., Kimata K.;
RT "Multiple forms of mouse PG-M, a large chondroitin sulfate
RT proteoglycan generated by alternative splicing";
RL J. Biol. Chem. 270:958-965(1995).
RN [2]
RP SEQUENCE FROM N.A. (ISOFORM V3).
RC STRAIN=C57BL/6;
RX MEDLINE=95181355; PubMed=7876137;
RA Zako M., Shimomura T., Ujita M., Ito K., Kimata K.;
RT "Expression of PG-M(V3), an alternatively spliced form of PG-M
RT without a chondroitin sulfate attachment in region in mouse and human
RT tissues.";
RL J. Biol. Chem. 270:3914-3918(1995).
RN [3]
RP SEQUENCE OF 1-1692 FROM N.A. (ISOFORM V1).
RC STRAIN=C57BL/6; TISSUE=Skin;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,

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RA Aizawa K., Izawa Y., Nishi K., Kiyosawa H., Kondo S., Yamana K. I.,
RA Saito T., Okazaki Y., Gojibori T., Bono H., Kasukawa T., Saito R.,
RA Kacota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schriml L.M., Stambli F., Suzuki R., Torita M., Wagner L., Washio T.,
RA Sakai K., Okita T., Furum M., Kono H., Baldarelli R., Barsh G.,
RA Blake J., Bottelli D., Soujunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hoffman M., Hume D.A., Kamita M., Lee N.E.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming D.,
RA Wyszewski B., Yoshida K., Hasegawa Y., Kawai H., Kohetsuki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RN Nature 409:685-690(2001).
RP INTERACTION WITH FBLN1.
RX PubMed=10400671;
RA Asperger A., Adam S., Kostka G., Timp R., Heinegaard D.,
RT "Fibulin-1 is a ligand for the C-type lectin domains of aggrecan and
RT versican.";
RN J. Biol. Chem. 274:20444-20449(1999).
CC - FUNCTION: May play a role in intercellular signaling and in
CC connecting cells with the extracellular matrix. May take part in
CC the regulation of cell motility, growth and differentiation. Binds
CC hyalurononic acid.
CC - SUBUNIT: Interacts with FBLN1.
CC - SUBCELLULAR LOCATION: Secreted; extracellular matrix.
CC - ALTERNATIVE PRODUCTS:
CC Event=alternative splicing; Named isoforms=4;
CC Comment=additional isoforms seem to exist;
CC Name=V0;
CC IsoId=Q62059-1; Sequence=Displayed;
CC Name=V1;
CC IsoId=Q62059-2; Sequence=VSP_003087, VSP_003088;
CC Name=V2;
CC IsoId=Q62059-3; Sequence=VSP_003089;
CC Name=V3;
CC IsoId=Q62059-4; Sequence=VSP_003087, VSP_003090;
CC - TISSUE SPECIFICITY: V2 is found only in brain.
CC - DEVELOPMENTAL STAGE: Disappears after the cartilage development.
CC - SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC - SIMILARITY: Contains 2 EGF-like domains.
CC - SIMILARITY: Contains 1 C-type lectin family domain.
CC - SIMILARITY: Contains 1 Sushi (SCR) domain.
CC - SIMILARITY: BELONGS TO THE AGGRECAN/VERSICAN PROTEOGLYCAN FAMILY.
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CC
CC EMBL; D1263; BAA03796.1; -
CC EMBL; D28599; -; NOT ANNOTATED - CDS.
CC EMBL; D32040; BAA06802.1; -
CC EMBL; AK014525; BAB29411.1; -
CC HSSP; P01132; 1EPG.
CC MGJ; MG1102889; CEP92.
CC InterPro: IPR000152; Aex_hydroxyl.
CC InterPro: IPR000742; EGF_2.
CC InterPro: IPR001881; EGF_Ca.
CC InterPro: IPR006209; EGF-like.
CC InterPro: IPR007110; IGF-like.
CC InterPro: IPR003598; IG.
CC InterPro: IPR003066; IG_MHC.
CC InterPro: IPR001304; Lectin_C.

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[illegible]

Query Match	10.6%	Score 134	DB 1	Length 3358
Best Local Similarity	24.6%	Pred. No. 0.001		
Matches	33	Conservative 23	Pred. matches 70	Indels 8
				Gaps 3
QY	102	CDTWRRYYGDSCYGPFPRNLTWEBSKOYCTDMAATLLKIDNRNIVEYFKATFE::IRVYGL	161	
DB	3132	CDYWMHKQGGQCYXYFARRRWMDAARECRLOGAHLTSLSHBQMFPNVRGHDIYCWIGL	3192	
QY	162	SROKSNVEWKKEDPSVLS-ENK-----FELFEDAKGNMKCAFYFNKGKHPFFCENKHVLM	215	
DB	3192	NDKMFPHDFRFTDTSALCYEKMRPNQDPSFSGEDCVIIMHENGQNDVPC--NTHLT	3249	
QY	216	CERXAGMTKVDQLP	229	
DB	3250	YTCCKGTVACGCP	3263	
RESULT 43				
ID	PGCV_HUMAN	STANDARD	ERT	3396 AA.
AC	P13611	P20754; Q13010; Q13189; Q15123; Q9UNWS;		
DT	01-JAN-1990	(Rel. 13, Created)		
DT	01-NOV-1997	(Rel. 35, Last sequence update)		
DT	15-SEP-2003	(Rel. 42, Last annotation update)		
DE	Vesican core protein precursor (large fibroblast proteoglycan)			
DE	(Chondroitin sulfate proteoglycan core protein 2) (Pg-M) (Glial			
GN	hyaluronate-binding protein) (GMAP).			
OS	CSPG2.			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
OX	NCBI_TaxId=9606;			
RN	SEQUENCE FROM N.A. (ISOFORM V0).			
RX	MEDLINE=95105188; PubMed=7528742;			
RA	Naseo M.F., Zimmermann D.R., Izozzo R.V.;			
RT	"Characterization of the complete genomic structure of the human			
RT	Vesican gene and functional analysis of its promoter.";			
RL	J. Biol. Chem. 269:32999-33008(1994).			
RN	SEQUENCE FROM N.A. (ISOFORM V1).			
RP	TISSUE=Placenta;			
RC	TISSUE=Placenta;			
RC	MEDLINE=90059882; PubMed=2583089;			
RA	Zimmermann D.R., Ruoslahti E.;			
RT	"Multiple domains of the large fibroblast proteoglycan, vesican.";			
RL	EMBO J. 8:12975-12981(1989).			
RN	SEQUENCE FROM N.A. (ISOFORM V2).			
RP	TISSUE=Glial tumor;			
RC	MEDLINE=95105187; PubMed=7806529;			
RA	Dours-Zimmermann M.T., Zimmermann D.R.;			
RT	"A novel glycosaminoglycan attachment domain identified in two			
RT	alternative splice variants of human vesican.";			
RL	J. Biol. Chem. 269:32992-32998(1994).			
RN	SEQUENCE OF 2711-3396 FROM N.A.			
RP	TISSUE=Lung fibroblast;			
RC	MEDLINE=88007514; PubMed=2820964;			
RA	Krusius T., Gehlsen K.R., Ruoslahti E.;			
RT	"A fibroblast chondroitin sulfate proteoglycan core protein contains			
RT	lectin-like and growth factor-like sequences.";			
RL	J. Biol. Chem. 262:13120-13125(1987).			

```

RN [5]
RP SEQUENCE OF 251-347 FROM N.A.
RX MEDLINE=93123792; PubMed=1476664;
RA Tozzo R.V., Nasc M.F., Cannizzaro L.A., Masmuth J.U.,
RA McPherson J.D.;
RT "Mapping of the versican proteoglycan gene (CSPG2) to the long arm of
RT human chromosome 5 (5q12-5q14).";
RL Genomics 14:845-851(1992).
RN [6]
RP SEQUENCE FROM N.A. (ISOFORM V3).
RC TISSUE=Brain;
RX MEDLINE=9518135; PubMed=7876137;
RA Zako M., Shimomura T., Ujita M., Ito K., Kimata K.;
RT "Expression of PG-M(V3), an alternatively spliced form of PG-M
RT without a chondroitin sulfate attachment in region in mouse and human
RT tissues.";
RL J. Biol. Chem. 270:3914-3918(1995).
RN [7]
RP SEQUENCE OF 3333-3396 FROM N.A. (ISOFORM VINT).
RC TISSUE=Aortic smooth muscle;
RX MEDLINE=99327053; PubMed=10397680;
RA Lemire J.M., Braun K.R., Maurer P., Kaplan E.D., Schwartz S.X.,
RA Wright T.N.;
RT "Versican/PG-M isoforms in vascular smooth muscle cells.";
RL Arterioscler. Thromb. Vasc. Biol. 19:1630-1639(1999).
RN [8]
RP PARTIAL SEQUENCE.
RC TISSUE=Brain;
RX MEDLINE=89174663; PubMed=2466833;
RA Perides G., Lane W.S., Andrews D., Dahl D., Bignani A.;
RT "Isolation and partial characterization of a glial
RT hyaluronate-binding protein.";
RL J. Biol. Chem. 264:5981-5987(1989).
RN [9]
RP TISSUE SPECIFICITY OF ISOFORMS.
RX MEDLINE=96213482; PubMed=8627243;
RA Paulus W., Baur I., Dours-Zimmermann M.T., Zimmermann D.R.;
RT "Differential expression of versican isoforms in brain tumors.";
RL Neuropharmacol. Exp. Neurol. 55:588-593(1996).
CC -I- FUNCTION: May play a role in intercellular signaling and in
CC connecting cells with the extracellular matrix. May take part in
CC the regulation of cell motility, growth and differentiation. Binds
CC hyaluronic acid.
CC -I- SUBUNIT: Interacts with FBLN1 (By similarity).
CC -I- SUBCELLULAR LOCATION: Secreted; extracellular matrix.
CC -I- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=5;
CC Comment=Additional isoforms seem to exist;
CC Name=V0;
CC IsoId=PI3611-1; Sequence=Displayed;
CC Name=V1;
CC IsoId=PI3611-2; Sequence=VSP_003082, VSP_003083;
CC Name=V2;
CC IsoId=PI3611-3; Sequence=VSP_003084;
CC Name=V3;
CC IsoId=PI3611-4; Sequence=VSP_003082, VSP_003085;
CC Name=Vint;
CC IsoId=PI3611-5; Sequence=VSP_003086;
CC -I- TISSUE SPECIFICITY: Cerebral white matter. V0 and V1 is expressed
CC in normal brain, gliomas, medulloblastomas, schwannomas,
CC neurofibromas, and meningiomas; V2 is restricted to normal brain
CC and gliomas; V3 is found in all these tissues except
CC medulloblastomas.
CC -I- DEVELOPMENTAL STAGE: Disappears after the cartilage development.
CC -I- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -I- SIMILARITY: Contains 2 link domains.
CC -I- SIMILARITY: Contains 2 EGF-like domains.
CC -I- SIMILARITY: Contains 1 C-type lectin family domain.
CC -I- SIMILARITY: Contains 1 Sushi (SCR) domain.
CC -I- SIMILARITY: BELONGS TO THE AGGRECAN/VERSICAN PROTEOGLYCAN FAMILY.
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CC or send an email to license@ebi.ac.uk.  
CC -----  
DR EMBL; U16306; AAA65018.1; -;  
DR EMBL; X15998; CA34128.1; -;  
DR EMBL; S52488; AAB24878.1; -;  
DR EMBL; U26555; AAA67565.1; -;  
DR EMBL; D32039; BAA06601.1; -;  
DR EMBL; J02814; AAA36437.1; -;  
DR EMBL; AF084545; AAD48545.1; -;  
DR PIR; S06014; A60979.  
DR HSSP; P01132; 1BGF.  
DR Genew; HGNC:2464; CSFG2.  
DR MIM; 118661; -;  
DR GO; GO:0005578; C:extracellular matrix; TAS.  
DR GO; GO:0005204; F:chondroitin sulfate proteoglycan; TAS.  
DR GO; GO:0005540; F:hyaluronic acid binding activity; TAS.  
DR GO; GO:0008037; P:cell recognition; TAS.  
DR GO; GO:0007275; P:development; TAS.  
DR InterPro; IPRO00152; Asx hydroxyl.  
DR InterPro; IPRO00742; EGF_2.  
DR InterPro; IPRO01881; EGF_CA.  
DR InterPro; IPRO06209; EGF-like.  
DR InterPro; IPRO07110; IG-I-like.  
DR InterPro; IPRO03599; Ig.  
DR InterPro; IPRO03006; Ig_MHC.  
DR InterPro; IPRO01304; Lectin_C.  
DR InterPro; IPRO00538; Link.  
DR InterPro; IPRO00436; Sushi_SCR_CCP.  
DR Pfam; PF00008; EGF_2.  
DR Pfam; PF00059; lectin_c; 1.  
DR Pfam; PF00084; sushi; 1.  
DR Pfam; PF00193; Link; 2.  
DR ProDom; PD000918; Link; 2.  
DR SMART; SM00032; CCP; 1.  
DR SMART; SM00034; CLECT; 1.  
DR SMART; SM00179; EGF_CA; 1.  
DR SMART; SM00409; IG; 1.  
DR SMART; SM00445; LINK; 2.  
DR PROSITE; PS00010; ASX_HYDROXYL; 1.  
DR PROSITE; PS00615; C_TYPE_LECTIN_1; 1.  
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.  
DR PROSITE; PS00022; EGF_1; 2.  
DR PROSITE; PS01186; EGF_2; 1.  
DR PROSITE; PS01187; EGF_CA; 1.  
DR PROSITE; PS50835; IG-LIKE; 1.  
DR PROSITE; PS01241; LINK; 2.  
KW Glycoprotein, Proteoglycan, Lectin, Extracellular matrix, Sushi,  
KW Signal, Repeat, EGF-like domain, Calcium, Immunoglobulin domain,  
KW Hyaluronic acid, Alternative splicing.  
KW SIGNAL 1 20 POTENTIAL.  
FT CHAIN 21 3396 VERSICAN CORE PROTEIN.  
FT DOMAIN 21 146 IG-LIKE V-TYPE.  
FT DOMAIN 167 244 LINK 1.  
FT DOMAIN 265 346 LINK 2.  
FT DOMAIN 348 1335 GAG-ALPHA  
(GLUCOSAMINOGLYCAN ATTACHMENT DOMAIN).  
FT DOMAIN 1336 3089 GAG-BETA.  
FT DOMAIN 3089 3125 EGF-LIKE 1.  
FT DOMAIN 3127 3163 EGF-LIKE 2, CALCIUM-BINDING (POTENTIAL).  
FT DOMAIN 3176 3290 C-TYPE LECTIN.  
FT DOMAIN 3235 3353 SUSHI.  
FT DISULFID 44 130 BY SIMILARITY.  
FT DISULFID 172 243 BY SIMILARITY.  
FT DISULFID 196 217 BY SIMILARITY.  
FT DISULFID 270 345 BY SIMILARITY.  
FT DISULFID 294 315 BY SIMILARITY.  
FT DISULFID 3093 3104 BY SIMILARITY.  
FT DISULFID 3098 3113 BY SIMILARITY.  
FT DISULFID 3115 3124 BY SIMILARITY.
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FT CARBOHYD 235 235 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 329 329 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 529 529 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 709 709 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 948 948 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1409 1409 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1479 1479 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1523 1523 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1530 1530 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1625 1625 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1751 1751 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 1988 1988 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 2088 2088 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 2089 2089 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 2507 2507 N-LINKED (GLCNAC. . .) (POTENTIAL)
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FT CARBOHYD 2679 2679 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 2748 2748 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 2762 2762 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 3069 3069 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 3194 3194 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 3232 3232 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT CARBOHYD 3545 3545 N-LINKED (GLCNAC. . .) (POTENTIAL)
FT VARSPIC 485 1411 Missing (in isoform V1).
SQ SEQUENCE 3562 AA; 388078 MW; 98C56E88C1602D2 CRC64;

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Query Match 10.5%; Score 132; DB 1; Length 3562;
Best Local Similarity 24.6%; Pred. No. 0.0016;
Matches 33; Conservative 23; Mismatches 70; Indels 8; Gaps 3;

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QY 102 CDTWRYGDSYGFPHNLTWESKOYCTDMAATIKINRNLVEYIKARTLIRWGL 161
Db 3334 CDYWHMFQGGCTYGFPHRTWDTAREBCRLQGHLSITLSHREQVVRNGEYQITGL 3593
QY 162 SROKSNWVWKEGDSVLS-ENM-----FEELDEGNNNGAYFNGMHPFENKAYLM 215
Db 3394 NDKWFEDPFWTDSPLQYENWRNQPDSFSAEDCVIIMHANGMNVPC-NHHLT 3451
QY 216 CERAGMTKYDQLP 229
Db 3452 YTCCKGTACGQPP 3465

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RESULT 45
MANR HUMAN STANDARD; PRT; 1456 AA.
AC P22897;
DT 01-AUG-1991 (Rel. 19, Created)
DT 01-AUG-1991 (Rel. 19, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DS Macrophage mannose receptor precursor (MMR) (CD206 antigen).
GN MRC1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_Taxid=9606;
RN [1]
R2 SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
RC TISSUE=Placenta;
RX MEDLINE=90324192; PubMed=2373685;
RA Taylor M.E., Conary J.T., Lennartz M.R., Stahl P.D., Drickamer K.;
RT "Primary structure of the mannose receptor contains multiple motifs
RT resembling carbohydrate-recognition domains.";
RL J. Biol. Chem. 265:12156-12162(1990).
RN [2]
RN SEQUENCE FROM N.A.
RX MEDLINE=93052405; PubMed=1294118;
RA Kim S.J., Ruiz N., Bezouska K., Drickamer K.;
RT "Organization of the gene encoding the human macrophage mannose
RT receptor (MRC1).";
RL Genomics 14:721-727(1992).
RN [3]

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RP STUDIES ON THE BINDING OF INDIVIDUAL LECTIN DOMAINS.
RX MEDLINE=92112893; PubMed=1730714;
RA Taylor M.E., Bezouska K., Drickamer K.;
RT "Contribution to ligand binding by multiple carbohydrate-recognition
RT domains in the macrophage mannose receptor.";
RL J. Biol. Chem. 267:1719-1726(1992).
RN [4]
RP X-RAY CRYSTALLOGRAPHY (2.3 ANGSTROMS) OF 642-788.
RX MEDLINE=20347275; PubMed=10779515;
RA Feinberg H., Park-Snyder S., Kolatkar A.R., Heise C.T., Taylor M.E.,
RA Weis W.I.;
RT "Structure of a C-type carbohydrate recognition domain from the
RT macrophage mannose receptor.";
RL J. Biol. Chem. 275:21539-21548(2000).
CC -1- FUNCTION: MEDIATES THE ENDOCYTOSIS OF GLYCOPROTEINS BY
CC MACROPHAGES, IN SEVERAL RECOGNITION AND UPTAKE PROCESSES.
CC -1- SUBCELLULAR LOCATION: Type 1 membrane protein.
CC -1- MISCELLANEOUS: CRDS 1-3 HAVE AT MOST VERY WEAK AFFINITY FOR
CC CARBOHYDRATE. CRD 4 SHOWS THE HIGHEST AFFINITY BINDING AND HAS
CC MULTISPECIFICITY FOR A VARIETY OF MONOSACCHARIDES. AT LEAST 3 CRDS
CC (4, 5, AND 7) ARE REQUIRED FOR HIGH AFFINITY BINDING AND
CC ENDOCYTOSIS OF MULTIVALENT GLYCOCONGUGATES.
CC -1- SIMILARITY: Contains 8 C-type lectin family domains.
CC -1- DATABASE: NMR:PROW; NOTE=PROW 2:85-89(2001);
CC WWW=http://www.ncbi.nlm.nih.gov/prow/guide/164434535_g.htm".

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CC -----
CC EMBL; J05550; AAA59868.1; -
CC EMBL; M93221; AAA60389.1; -
CC EMBL; M93192; AAA60389.1; JOINED.
CC EMBL; M93193; AAA60389.1; JOINED.
CC EMBL; M93194; AAA60389.1; JOINED.
CC EMBL; M93195; AAA60389.1; JOINED.
CC EMBL; M93196; AAA60389.1; JOINED.
CC EMBL; M93197; AAA60389.1; JOINED.
CC EMBL; M93198; AAA60389.1; JOINED.
CC EMBL; M93199; AAA60389.1; JOINED.
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CC EMBL; M93202; AAA60389.1; JOINED.
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CC EMBL; M93208; AAA60389.1; JOINED.
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CC EMBL; M93210; AAA60389.1; JOINED.
CC EMBL; M93211; AAA60389.1; JOINED.
CC EMBL; M93212; AAA60389.1; JOINED.
CC EMBL; M93213; AAA60389.1; JOINED.
CC EMBL; M93214; AAA60389.1; JOINED.
CC EMBL; M93215; AAA60389.1; JOINED.
CC EMBL; M93216; AAA60389.1; JOINED.
CC EMBL; M93217; AAA60389.1; JOINED.
CC EMBL; M93218; AAA60389.1; JOINED.
CC EMBL; M93219; AAA60389.1; JOINED.
CC EMBL; M93220; AAA60389.1; JOINED.
CC PIR; A36563; A36563.
CC PDB; 1EGG; 30-AUG-00.
CC PDB; 1EGT; 30-AUG-00.
CC Genew: HGNC:7228; MRC1.
CC MIM; 153618; -
CC GO; GO:0005867; C:integral to plasma membrane; TAS.
CC GO; GO:0005537; F:mannose binding activity; TAS.

```





CC BASOPHILS AND MAST CELLS AND LOW AFFINITY RECEPTORS ON LYMPHOCYTES  
 CC AND MONOCYTES.  
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.  
 CC -1- DATABASE: NAME=PRO; NOTE=CD guide CD23 entry;  
 CC WWW="http://www.ncbi.nlm.nih.gov/prov/cd/cd23.htm".  
 CC -----  
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 CC or send an email to license@isb-sib.ch).  
 CC -----  
 CC EMBL: M15059; AAA52434.1; -  
 CC EMBL: M14766; AAA52435.1; -  
 CC EMBL: X04772; CA28465.1; -  
 CC EMBL: M23562; AAA52433.1; -  
 CC PIR: A26067; LNHUER.  
 CC PDB: 1HL1; 31-JAN-94.  
 CC PDB: 1KJ5; 03-APR-96.  
 CC Gene: HGNC:3612; FCER2.  
 CC MIM: 153445; -  
 CC DR GO:0008687; C-type integral to plasma membrane; TAS.  
 CC DR GO:0005178; F-Integrin binding activity; TAS.  
 CC DR InterPro: IPR002353; AntiFceze1.  
 CC DR InterPro: IPR001304; Lectin\_C.  
 CC Pfam: PF00059; Lectin\_c; 1.  
 CC DR PRINTS: PRO0356; ANTI-FCEZE1.  
 CC DR SMART: SM00034; CLECT; 1.  
 CC DR PROSITE: PS00615; C TYPE LECTIN 1; 1.  
 CC DR PROSITE: PS00611; C TYPE LECTIN 2; 1.  
 CC KM 1GE-binding protein; Transmembrane; Glycoprotein; Receptor; B-cell;  
 CC Repeat; Lectin; Signal-anchor; Alternative splicing; 3D-structure.  
 CC FT CHAIN 1 321  
 CC FT DOMAIN 150 321  
 CC FT TRANSMEM 22 47  
 CC FT DOMAIN 48 321  
 CC FT SITE 149 150  
 CC FT REPEAT 69 89  
 CC FT REPEAT 90 110  
 CC FT REPEAT 111 131  
 CC FT DISULFID 160 288  
 CC FT DISULFID 163 174  
 CC FT DISULFID 191 282  
 CC FT DISULFID 259 273  
 CC FT CARBOHYD 63 63  
 CC FT VARSPPLIC 1 7  
 CC FT CONFLICT 269 269  
 CC FT HELIX 174 177  
 CC FT HELIX 184 193  
 CC FT TURN 194 195  
 CC FT STRAND 197 198  
 CC FT HELIX 204 214  
 CC FT TURN 215 216  
 CC FT STRAND 219 228  
 CC FT TURN 229 230  
 CC FT STRAND 231 234  
 CC FT TURN 235 236  
 CC FT STRAND 239 245  
 CC FT STRAND 245 245  
 CC FT TURN 247 248  
 CC FT TURN 254 255  
 CC FT STRAND 259 262  
 CC FT TURN 264 265  
 CC FT STRAND 271 271  
 CC FT TURN 273 274  
 CC FT STRAND 281 284  
 CC SEQUENCE 321 AA; 36468 MW; F86708C0E6515B87 CRC64;

Query Match 9.9%; Score 124.5; DB 1; Length 321;  
 Best Local Similarity 25.0%; Pred. No. 0.00052;  
 Matches 42; Conservative 30; Mismatches 85; Indels 11; Gaps 8;  
 QY 63 QDENNRRTTLOQLAKRFQGVYVK-OSELKGFKHKSPCDTMMRYGDSGVGFRRHT 121  
 Db 126 QILNERNVMS--DLERLREFTKLRMEIQ-VSSGVCTGCEKINIFPKCIYFQKIK 182  
 QY 122 TWESKQYCTDNATLTKIDNENIVEYI-KAPTHLIRVGLSRQSNRYWKEDGSVISE 180  
 Db 183 QVHARVACDDMEQGVLSHSPEQDFLTKASHSTISGLRNLDIKGSFIWVDSGHVY 242  
 QY 181 MNF---EFLPDGKGNMCAVFE-NKMEYFENK-HYIMCRKAGMT 223  
 Db 243 SNWAPGPTSRSGQE-DCVMWGRGRWDAFCDKZGAWVCDRLATCT 289  
 RESULT 48  
 PGN RAT STANDARD; PRT; 1257 AA.  
 AC P53067;  
 DT 01-OCT-1996 (Rel. 34, Created)  
 DT 01-OCT-1996 (Rel. 34, Last sequence update)  
 DT 15-SEP-2003 (Rel. 42, Last annotation update)  
 DE Neurocan core protein precursor (Chondroitin sulfate proteoglycan 3)  
 DE (245 kDa early postnatal core glycoprotein) [Contains: 156 kDa adult  
 DE core glycoprotein].  
 GN CSPG3 OR NCAN.  
 OS Rattus norvegicus (Rat).  
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eultheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
 OX NCBI\_TaxID=10116;  
 RN [1]  
 RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.  
 RC STRAIN=Sprague-Dawley; TISSUE=Brain;  
 RX MEDLINE=92406907; PubMed=1326557;  
 RA Rauch U., Karthikeyan L., Maurel P., Margolis R.U., Margolis R.K.;  
 RT "Cloning and primary structure of neurocan, a developmentally  
 RT regulated, aggregating chondroitin sulfate proteoglycan of brain.";  
 RL J. Biol. Chem. 267:19536-19547(1992).  
 R2 [2]  
 RP CHARACTERIZATION.  
 RX MEDLINE=94230574; PubMed=7513709;  
 RA Friedlander D.R., Miley P., Karthikeyan L., Margolis R.K.,  
 RA Margolis R.U., Grunet M.;  
 RT "The neuronal chondroitin sulfate proteoglycan neurocan binds to the  
 RT neural cell adhesion molecules Ng-CAM/L1/NILE and N-CAM, and inhibits  
 RT neuronal adhesion and neurite outgrowth.";  
 RL J. Cell Biol. 125:663-680(1994).  
 CC -1- FUNCTION: May modulate neuronal adhesion and neurite growth during  
 CC development by binding to neural cell adhesion molecules (Ng-CAM  
 CC and N-CAM). Chondroitin sulfate proteoglycan; binds to hyaluronate  
 CC acid.  
 CC -1- TISSUE SPECIFICITY: EARLY POSTNATAL AND ADULT BRAIN; NOT EXPRESSED  
 CC IN KIDNEY, LUNG, LIVER AND MUSCLE.  
 CC -1- PFM: CONTAINS MOSTLY CHONDROITIN SULFATE, BUT ALSO N-LINKED AND  
 CC O-LINKED OLIGOSACCHARIDES (BY SIMILARITY).  
 CC -1- PFM: TWO ISOPFORMS WERE FOUND THAT PROBABLY ARISE BY PROTEOLYTIC  
 CC DEGRADATION. THE SMALL ISOFORM IS PREDOMINANT IN EARLY POSTNATAL  
 CC BRAIN, THE SMALL ISOFORM IS FOUND IN ADULT BRAIN.  
 CC -1- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.  
 CC -1- SIMILARITY: Contains 2 EGF-like domains.  
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.  
 CC -1- SIMILARITY: Contains 1 C-type lectin family domain.  
 CC -1- SIMILARITY: BELONGS TO THE AGGRECAN/VERSICAN PROTEOGLYCAN FAMILY.  
 CC -----  
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CC -----

DR EMBL; M97161; AAC37679.1; ..

DR PIR; S28764; S28764.

DR HSSP; P00740; 1EDM.

DR InterPro; IPRO02353; AntiFreezeII.

DR InterPro; IPRO00152; Asx\_hydroxyl.

DR InterPro; IPRO00742; EGF\_2.

DR InterPro; IPRO01881; EGF\_Ca.

DR InterPro; IPRO06209; EGF\_Like.

DR InterPro; IPRO07110; IG\_Like.

DR InterPro; IPRO03599; IG.

DR InterPro; IPRO03306; IG\_MHC.

DR InterPro; IPRO01304; Lectin\_C.

DR InterPro; IPRO00538; Link.

DR InterPro; IPRO00436; Sushr\_SCR\_CCP.

DR Pfam; PF00008; EGF\_2.

DR Pfam; PF00047; IG\_1.

DR Pfam; PF00059; lectin\_C; 1.

DR Pfam; PF00084; sushr\_1.

DR Pfam; PF0193; Xlink; 2.

DR PRINTS; PR01265; LINKMODULE.

DR PRINTS; PR00356; ANTIFREEZEII.

DR PRODOM; PD000918; Link; 2.

DR SMART; SM00032; CCP; 1.

DR SMART; SM00034; CECT; 1.

DR SMART; SM00179; EGF\_CA; 1.

DR SMART; SM00409; IG; 1.

DR SMART; SM00445; Link; 2.

DR PROSITE; PS00010; ASX\_HYDROXYL; 1.

DR PROSITE; PS00615; C TYPE LECTIN; 1.

DR PROSITE; PS50041; C TYPE LECTIN\_2; 1.

DR PROSITE; PS00022; EGF\_1; 3.

DR PROSITE; PS01186; EGF\_2; 1.

DR PROSITE; PS01187; EGF\_CA; 1.

DR PROSITE; PS00835; IG\_Like; 1.

DR PROSITE; PS01241; Link; 2.

KW Glycoprotein; Hyaluronic acid; Proteoglycan; Immunoglobulin domain; EGF-like domain; Calcium; Repeat; Lectin; Sushr; Signal.

FT SIGNAL 1 22

FT CHAIN 23 1257

FT DOMAIN 639 1257

FT DOMAIN 37 157

FT DOMAIN 158 253

FT DOMAIN 259 355

FT DOMAIN 949 985

FT DOMAIN 987 1023

FT DOMAIN 1025 1154

FT DOMAIN 1155 1213

FT DISULFID 58 139

FT DISULFID 181 252

FT DISULFID 205 226

FT DISULFID 279 354

FT DISULFID 303 324

FT DISULFID 953 964

FT DISULFID 958 973

FT DISULFID 975 984

FT DISULFID 1029 1040

FT DISULFID 1057 1149

FT DISULFID 1125 1141

FT DISULFID 1156 1199

FT DISULFID 1185 1212

FT CARBOHYD 121 121

FT CARBOHYD 329 339

FT CARBOHYD 737 737

FT CARBOHYD 944 944

FT CARBOHYD 967 967

FT CARBOHYD 1164 1164

SO SEQUENCE 1257 AA; 135544 MW; 992B33DCFA19E1B CRC64;

Query Match 9.8%; Score 124; DR 1; Length 1257;

Best Local Similarity 22.1%; Pred. No. 0.0027;

Matches 30; Conservative 27; Mismatches 69; Indels 10; Gaps 4;

QY 93 TRKHKCEP-----COTNRYIGDSCYCPFRHNLTWESKQYCTDMKATLTKDNRIYV 148

DB 1016 SYGNLCEDEDTGCGRWKHEFGCHRYFAHRAWEDARDRRRAGHILTSVSPENHF 1075

QY 149 IAAATHLIRVGLSLSKSOKSNVWKWEDGSYIS-ENNEEFLDGG--KGNMKAYF---HNK 202

DB 1076 IISFGHEMSWIGLNDYTRDPQWTDNTGLQYENRREKQDNPFAQGEDCVYVAHNGR 1135

QY 203 MHPTPCENKGYLMCEK 218

DB 1136 WNDVPCNVLPRYVCKK 1151

RESULT 49

ID LITB HUMAN STANDARD; PRT; 166 AA.

AC P48304;

DT 01-FEB-1996 (Rel. 33, Last sequence update)

DT 01-FEB-1996 (Rel. 33, Last sequence update)

DT 28-FEB-2003 (Rel. 41, Last annotation update)

DE Lithostathine I beta precursor (Regenerating protein I beta).

GN REGI OR REGI.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.

OX NCBI\_TaxId=9606;

RN [1]

RP SEQUENCE FROM N.A.

RC TISSUE=PANCREAS;

RX MEDLINE=94153997; PubMed=8110835;

RA Morizumi S., Watanabe T., Uno M., Nakagawara K.I., Suzuki Y., Miyashita H., Yonokura H., Okamoto H.,

RT "Isolation, structural determination and expression of a novel reg gene, human regI beta."

RT Biochim. Biophys. Acta 1217:199-202(1994).

RN [2]

RP SEQUENCE FROM N.A.

RX MEDLINE=93351647; PubMed=8346956;

RA Bartoli C., Garib B., Giorgi D., Sansonetti A., Degori J.-C., Borge-LeFranc U.;

RT "A gene homologous to the reg gene is expressed in the human pancreas."

RT FEBS Lett. 327:289-293(1993).

RN [3]

RP CARBOHYDRATE-LINKAGE SITE.

RX MEDLINE=9531286; PubMed=7607222;

RA De Reggi M., Capon C., Garib B., Wieruszski J.M., Michel R., Fournet B.;

RT "The glycan moiety of human pancreatic lithostathine. Structure characterization and possible pathophysiological implications."

RT Eur. J. Biochem. 230:503-510(1995).

CC -1- FUNCTION: MIGHT ACT AS AN INHIBITOR OF SPONTANEOUS CALCIUM CARBONATE PRECIPITATION. MAY BE ASSOCIATED WITH NEURONAL SPROUTING IN BRAIN, AND WITH BRAIN AND PANCREAS REGENERATION.

CC -1- PTM: ALL O-LINKED GLYCANS CONSIST OF GAL-GLCNAC-GAL-GLCNAC TETRASACCHARIDE CORE AND GET ELONGATED (MICROHETEROGENTIV).

CC -1- SIMILARITY: Contains 1 C-type lectin family domain.

CC -----

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CC -----

DR EMBL; D17291; BAA04124.1; ..

DR EMBL; D16816; BAA04091.1; ..

DR EMBL; L08010; AAA18204.1; ..

DR PIR; S34591; RGHUB.

DR HSSP; P05451; ILIT.

```

DR   Genew; HGNC:3952; RBGLB.
DR   MK; 167771; -.
DR   GO; GO:0008283; P:cell proliferation; TAS.
DR   InterPro; IPR001304; Lectin C.
DR   InterPro; IPR003990; Pancratis_ac.
DR   Pfam; PF00059; Lectin_c; 1.
DR   PRINTS; PRO1504; PNCREATISAP.
DR   SMART; SM00034; CLECT; 1.
DR   PROSITE; PS00615; C-TYPE LECTIN 1; 1.
DR   PROSITE; PS50041; C-TYPE LECTIN 2; 1.
DR   GlycoProtein; Signal; Lectin; Pyroglutamate carboxylic acid.
FT   SIGNAL      1      22
FT   CHAIN       23      166
FT   DOMAIN      34      164
FT   MOD_RES     23      23
FT   CARBOHYD    27      27
FT   DISULFID    36      47
FT   DISULFID    64      162
FT   DISULFID    137     154
SQ   SEQUENCE   166 AA; 18665 MW; DIDC20E1IAESDD88 CRC64;

Query Match
Best Local Similarity 24.3%; Score 123; DB 1; Length 166;
Matches 35; Conservative 16; Mismatches 53; Indels 40; Gaps 5;

QY  102 CDINWRYGDSYGFPHNLTWESKQYCTDNN-----ATLK---IDN 142
DB  36 CPBGTNAYRSYCYFENEDPEIWDADLYCCNNSGNLVSYTQEGAFVSLIESSTD 95
QY  143 RNIVRYIKARTHLIRVYGLSRKSNVYKMGDSVISENFELEDGKGN-----MNC 195
DB  96 SNV-----WGLHDPKCKRRHWSGSLVYSKSWDTSPSSAANGYCASLTSC 143
QY  196 AYENNGMHPYFCENKHYLMCEK 219
DB  144 SGFK--KWKDSCEKKFSVCKFK 165

RESULT 50
V239_FOMEV
ID   V239_FOMEV          STANDARD;   PRT;   163 AA.
AC   P14371; Q9U500;
DT   01-JAN-1990 (Rel. 13, Created)
DI   16-OCT-2001 (Rel. 40, Last sequence update)
DE   Putative C-type lectin protein PPV239 (BamHI-ORF8).
GN   PPV239.
OS   Fowlpox virus (PPV).
OC   Viruses; dsDNA viruses, no RNA stage; Poxviridae; Chordopoxvirinae;
OX   NCBI_TaxID=10261;
RN   [1]
RP   SEQUENCE FROM N.A.
RC   STRAIN=PP-9 / Isolate HP-438;
RX   MEDLINE=88229622; PubMed=2836548;
RA   Tomley F., Binn M., Campbell J., Boursnell M.E.G.;
RT   "Sequence analysis of an 11.2 kilobase, near-terminal, BamHI fragment
    of fowlpox virus.";
RL   J. Gen. Virol. 69:1025-1040(1988).
CC   -!- SIMILARITY: Contains 1 C-type lectin family domain.
CC   -----
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CC   -----
DR   EMBL; AF198100; AA044583.1; -.
DR   EMBL; D00295; AAA00203.1; -.
DR   PIR; H29963; MWY2F8.
DR   HSSP; P05140; 2AEP.
DR   InterPro; IPR001304; Lectin_C.
DR   Pfam; PF00059; Lectin_c; 1.
DR   SMART; SM00034; CLECT; 1.
DR   PROSITE; PS00615; C-TYPE LECTIN 1; FALSE_NEG.
DR   PROSITE; PS50041; C-TYPE LECTIN 2; 1.
DR   Hypothetical protein; Lectin; C-TYPE LECTIN.
FT   DOMAIN      48      159
SQ   SEQUENCE   163 AA; 18635 MW; 5156DC892885532 CRC64;

Query Match
Best Local Similarity 27.0%; Score 122; DB 1; Length 163;
Matches 30; Conservative 17; Mismatches 52; Indels 12; Gaps 3;

QY  102 CDINWRYGDSYGFPHNLTWESKQYCTDNNATILKIDNRN-----TVYIKARTHLIR 157
DB  48 CKEGWGYNNKCYFFSEKNNKSLAVERGCKMDGHLTSSISKKEEFILYKGGNH--- 104
QY  158 WGLSRQKSNVYKMGDSVISENFELEDGKNNKCAVFNCKKAPTPC 208
DB  105 WIGLEKVDPRGTWKLKEDG-----SYNIVPIKIGICATLSRSTWSSFC 150

Search completed: December 3, 2003, 08:46:32
Job time : 20 secs

```

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 3, 2003, 08:43:47 : Search time 35 Seconds

(without alignments)  
1688,401 Million cell updates/sec

Title: US-09-903-190-97  
Perfect score: 1261  
Sequence: 1 MQRDDGYTLINIKTRKDALV.....NKHVMCEFKAGTKRVQLP 223

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 830525

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

SPTRMBI\_23:\*  
1: sp\_archaea:\*  
2: sp\_bacteria:\*  
3: sp\_fungi:\*  
4: sp\_human:\*  
5: sp\_invertebrate:\*  
6: sp\_mammal:\*  
7: sp\_mhc:\*  
8: sp\_organelle:\*  
9: sp\_phage:\*  
10: sp\_plant:\*  
11: sp\_rodent:\*  
12: sp\_virus:\*  
13: sp\_vertebrate:\*  
14: sp\_unclassified:\*  
15: sp\_virus:\*  
16: sp\_bacteriap:\*  
17: sp\_archaeap:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1234	97.9	229	4 Q9P126	Q9P126 homo sapien
2	1057.5	83.9	196	4 Q8NHR6	Q8NHR6 homo sapien
3	790	62.6	229	11 Q9U199	Q9U199 mus muscitu
4	352.5	28.0	280	4 Q8NCO1	Q8NCO1 homo sapien
5	351.5	27.9	280	4 Q8IUV7	Q8IUV7 homo sapien
6	346.5	27.5	280	4 Q9NZ13	Q9NZ13 mus muscitu
7	344.5	27.3	259	11 Q8BMV2	Q8BMV2 mus muscitu
8	342.5	27.2	259	11 Q8BMV5	Q8BMV5 mus muscitu
9	320	25.4	275	11 Q9DA03	Q9DA03 mus muscitu
10	299.5	23.8	247	4 Q9BMX2	Q9BMX2 mus sapien
11	291	23.8	244	11 Q8K114	Q8K114 mus muscitu
12	288	22.8	244	11 Q9U150	Q9U150 mus muscitu
13	287.5	22.8	247	6 Q8HZ58	Q8HZ58 macaca mula
14	279.5	22.2	201	4 Q9HK3	Q9HK3 homo sapien
15	266.5	21.1	278	6 Q9K1A8	Q9K1A8 cryctolagus
16	265	21.0	265	4 Q8TD06	Q8TD06 homo sapien

17	254.5	20.2	274	6 Q9TK7	Q9TK7 sus scrofa
18	249.5	19.8	273	4 P78360	P78360 homo sapien
19	242.5	19.2	270	6 P79391	P79391 bos taurus
20	234.5	18.6	267	11 Q8BN96	Q8BN96 mus muscitu
21	233.5	18.5	238	11 Q8ARU4	Q8ARU4 mus muscitu
22	232.5	18.4	206	11 Q8BZ31	Q8BZ31 mus muscitu
23	230.5	18.3	168	4 Q9EPAT	Q9EPAT homo sapien
24	227.5	18.0	293	11 Q8CB84	Q8CB84 mus muscitu
25	222	17.6	216	6 Q8MUH1	Q8MUH1 mus muscitu
26	222	17.6	216	6 Q8MUH0	Q8MUH0 mus muscitu
27	217	17.2	232	11 Q54709	Q54709 mus muscitu
28	211.5	16.8	216	6 Q9MZ37	Q9MZ37 pan troglod
29	208	16.5	185	6 Q9MZ06	Q9MZ06 macaca mula
30	205	16.3	214	6 Q9GLP5	Q9GLP5 sus scrofa
31	204.5	16.2	215	11 Q70215	Q70215 ratius norv
32	200.5	15.9	277	6 Q8SP06	Q8SP06 bos taurus
33	196	15.5	179	6 Q8MHY9	Q8MHY9 mus muscitu
34	196	15.5	179	11 Q35778	Q35778 ratius norv
35	195.5	15.5	226	11 Q8CUC7	Q8CUC7 mus muscitu
36	195	15.5	179	6 Q8MHY8	Q8MHY8 pongo pygma
37	194	15.4	179	6 Q8MJ14	Q8MJ14 pongo pygma
38	193	15.3	179	6 Q8MJ13	Q8MJ13 pongo pygma
39	192.5	15.3	231	11 Q8K4F1	Q8K4F1 ratius norv
40	191.5	15.2	179	11 Q54708	Q54708 mus muscitu
41	191.5	15.2	222	4 Q14538	Q14538 homo sapien
42	191	15.1	223	11 Q62983	Q62983 ratius norv
43	190	15.1	316	4 Q8IUN9	Q8IUN9 homo sapien
44	190	15.1	364	11 Q70156	Q70156 ratius norv
45	189.5	15.0	285	6 Q9BDH2	Q9BDH2 papio hamad
46	188.5	14.9	280	11 Q8K3G1	Q8K3G1 ratius norv
47	187.5	14.9	179	11 Q54707	Q54707 mus muscitu
48	185.5	14.7	232	4 Q9NZS2	Q9NZS2 homo sapien
49	185	14.7	189	4 Q96DR9	Q96DR9 homo sapien
50	184.5	14.6	282	6 Q8MJ12	Q8MJ12 pongo pygma
51	183.5	14.6	208	11 Q91ZM7	Q91ZM7 mus muscitu
52	181	14.4	192	4 Q96PA5	Q96PA5 mus muscitu
53	181	14.4	353	11 Q95Q09	Q95Q09 mus muscitu
54	180.5	14.3	226	6 Q95U94	Q95U94 macaca mula
55	179.5	14.2	376	4 Q9BXS3	Q9BXS3 homo sapien
56	179.5	14.2	399	4 Q9HX23	Q9HX23 homo sapien
57	178	14.1	233	6 Q8MJ17	Q8MJ17 pongo pygma
58	178	14.1	233	6 Q95L92	Q95L92 macaca mula
59	177.5	14.1	233	6 Q8MJ16	Q8MJ16 pongo pygma
60	177.5	14.1	80	6 Q95UG5	Q95UG5 bos taurus
61	177.5	14.1	445	6 Q8HYC0	Q8HYC0 pan troglod
62	176.5	14.0	80	6 Q95UG6	Q95UG6 bos taurus
63	176.5	14.0	263	4 Q96QP3	Q96QP3 homo sapien
64	176.5	14.0	445	6 Q8HYO5	Q8HYO5 pan troglod
65	176	14.0	233	6 Q8MJ10	Q8MJ10 mus muscitu
66	176	14.0	233	6 Q8MJ15	Q8MJ15 pongo pygma
67	175.5	13.9	188	11 Q64335	Q64335 ratius norv
68	175.5	13.9	275	11 Q62982	Q62982 ratius norv
69	175.5	13.9	256	6 Q8MTS5	Q8MTS5 mus muscitu
70	175	13.9	273	11 Q9JMA4	Q9JMA4 mus muscitu
71	175	13.9	274	11 Q8BUC9	Q8BUC9 mus muscitu
72	175	13.8	376	6 Q8HYO6	Q8HYO6 gorilla gor
73	174.5	13.8	233	6 Q8MJ11	Q8MJ11 pongo pygma
74	174	13.8	233	6 Q8MJ18	Q8MJ18 pongo pygma
75	174	13.8	332	4 Q96OP5	Q96OP5 mus sapien
76	174	13.8	231	6 Q8MT05	Q8MT05 macaca fasc
77	173.5	13.8	257	13 Q90636	Q90636 gallus gali
78	173.5	13.8	263	11 Q9JHV4	Q9JHV4 mus muscitu
79	173.5	13.6	231	6 Q9GME8	Q9GME8 pan troglod
80	172	13.6	233	6 Q9MZ40	Q9MZ40 pan troglod
81	172	13.6	236	6 Q9MZ39	Q9MZ39 pan troglod
82	171	13.6	230	11 Q54871	Q54871 ratius norv
83	171	13.6	381	6 Q8HY02	Q8HY02 hylobates s
84	170.5	13.5	399	6 Q8HY12	Q8HY12 hylobates l
85	170.5	13.5	399	6 Q8HY10	Q8HY10 hylobates c
86	170.5	13.5	404	6 Q8HY01	Q8HY01 hylobates c
87	170.5	13.5	422	6 Q8HY11	Q8HY11 hylobates s
88	170.5	13.5			
89	170.5	13.5			

90 170.5 13.5 450 6 Q8HY03  
 91 169.5 13.4 277 11 Q8K3H4  
 92 168.5 13.4 181 4 Q9N2S1  
 93 168.5 13.4 237 11 Q91ZW8  
 94 168.5 13.4 332 11 Q8J2N1  
 95 168.5 13.4 399 4 Q9H2Q9  
 96 168 13.3 207 11 Q8V1K4  
 97 167.5 13.3 238 11 Q91ZX1  
 98 166.5 13.2 223 11 Q92SG5  
 99 166.5 13.2 262 11 Q9JHV0  
 100 166 13.2 233 6 Q9MYW6

## ALIGNMENTS

## RESULT 1

Q9P126 PRELIMINARY; PRT; 229 AA.  
 ID Q9P126  
 AC Q9P126  
 DT 01-OCT-2000 (TREMblrel. 15, Created)  
 DT 01-OCT-2000 (TREMblrel. 15, Last sequence update)  
 DT 01-MAR-2002 (TREMblrel. 20, Last annotation update)  
 DE C-type lectin-like receptor-2.  
 OS Homo sapiens (human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 NCBI\_TaxID=9606;  
 RX [1]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Liver;  
 RX MEDLINE=20135876; PubMed=10671229;  
 RA Coloma M., Samaridis J., Angman L.;  
 RT "Molecular characterization of two novel C-type lectin-like receptors,  
 one of which is selectively expressed in human dendritic cells.";  
 RL Eur. J. Immunol. 30:697-704(2000).  
 DR EMBL; AF124841; AAF36777.1; -  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; lectin\_c/1.  
 DR SMART; SM00034; CLECT\_1.  
 DR PROSITE; PS50041; C\_TYPE\_LLECTIN\_2; 1.  
 KW lectin; Receptor.  
 SQ SEQUENCE 229 AA; 26700 MW; 9134494FE514879D CRC64;

Query Match 97.9%; Score 1234; DB 4; Length 229;  
 Best Local Similarity 98.7%; Pred. No. 2.6e-111;  
 Matches 226; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 MODEDGYITLNTKTRPALVSVGPASSFWMRVVALILILICVGMVGLVALGIMSWMQRN 60  
 DB 1 MODEDGYITLNTKTRPALVSVGPASSFWMRVVALILILILYGMVGLVALGIMSWMQRN 60  
 QY 61 YIODENENRTGTLQOLAKRFCCQVYVQKSELKGFCKHKSPPCDTWRRYYGDSYGFRRN 120  
 DB 61 YIODENENRTGTLQOLAKRFCCQVYVQKSELKGFCKHKSPPCDTWRRYYGDSYGFRRN 120  
 QY 121 LTWESKQYCTDMNATILKIDNRIYEVYKARTHLIRWGLSRQSNENWKMEDGVSIVE 180  
 DB 121 LTWESKQYCTDMNATILKIDNRIYEVYKARTHLIRWGLSRQSNENWKMEDGVSIVE 180  
 QY 181 NMFEFLBDGKGNMCAYPFNGMHPFCENKXILNCERKAGMTKYDLP 229  
 DB 181 NMFEFLBDGKGNMCAYPFNGMHPFCENKXILNCERKAGMTKYDLP 229

## RESULT 2

Q8NHR6 PRELIMINARY; PRT; 196 AA.  
 ID Q8NHR6  
 AC Q8NHR6  
 DT 01-OCT-2002 (TREMblrel. 22, Created)  
 DT 01-OCT-2002 (TREMblrel. 22, Last sequence update)  
 DT 01-MAR-2003 (TREMblrel. 23, Last annotation update)  
 DE Similar to C-type lectin-like receptor-2.

OS Homo sapiens (human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 NCBI\_TaxID=9606;  
 RX [1]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Testis;  
 RA Strausberg R.;  
 RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; BC029554; AA029554.1; -  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; lectin\_c/1.  
 DR SMART; SM00034; CLECT\_1.  
 DR PROSITE; PS50041; C\_TYPE\_LLECTIN\_2; 1.  
 KW Receptor; Lectin.  
 SQ SEQUENCE 196 AA; 23140 MW; 4BA67F42727F31C CRC64;

Query Match 83.9%; Score 1057.5; DB 4; Length 196;  
 Best Local Similarity 85.2%; Pred. No. 2.6e-94;  
 Matches 195; Conservative 1; Mismatches 0; Indels 33; Gaps 1;

QY 1 MODEDGYITLNTKTRPALVSVGPASSFWMRVVALILILICVGMVGLVALGIMSWMQRN 60  
 DB 1 MODEDGYITLNTKTRPALVSVGPASSFWMRVVALILILILYGMVGLVALGIMSWMQRN 60  
 QY 61 YIODENENRTGTLQOLAKRFCCQVYVQKSELKGFCKHKSPPCDTWRRYYGDSYGFRRN 120  
 DB 61 YIODENENRTGTLQOLAKRFCCQVYVQKSELKGFCKHKSPPCDTWRRYYGDSYGFRRN 120  
 QY 121 LTWESKQYCTDMNATILKIDNRIYEVYKARTHLIRWGLSRQSNENWKMEDGVSIVE 180  
 DB 121 LTWESKQYCTDMNATILKIDNRIYEVYKARTHLIRWGLSRQSNENWKMEDGVSIVE 180  
 QY 181 NMFEFLBDGKGNMCAYPFNGMHPFCENKXILNCERKAGMTKYDLP 229  
 DB 181 NMFEFLBDGKGNMCAYPFNGMHPFCENKXILNCERKAGMTKYDLP 229

## RESULT 3

Q9ULJ99 PRELIMINARY; PRT; 229 AA.  
 ID Q9ULJ99  
 AC Q9ULJ99  
 DT 01-OCT-2000 (TREMblrel. 15, Created)  
 DT 01-OCT-2000 (TREMblrel. 15, Last sequence update)  
 DT 01-MAR-2002 (TREMblrel. 20, Last annotation update)  
 DE C-type lectin-like receptor 2.  
 GN CLC2.

OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.  
 NCBI\_TaxID=10090;  
 RX [1]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Spleen, and Liver;  
 RX MEDLINE=20135876; PubMed=10671229;  
 RA Coloma M., Samaridis J., Angman L.;  
 RT "Molecular characterization of two novel C-type lectin-like receptors,  
 one of which is selectively expressed in human dendritic cells.";  
 RL Eur. J. Immunol. 30:697-704(2000).  
 DR EMBL; AF201457; AAF36831.1; -  
 DR MGD; MGI:1913287; Clec2.  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; lectin\_c/1.  
 DR SMART; SM00034; CLECT\_1.  
 DR PROSITE; PS50041; C\_TYPE\_LLECTIN\_2; 1.  
 KW lectin; Receptor.  
 SQ SEQUENCE 229 AA; 26239 MW; 1BC9377F491CA52B CRC64;

Query Match 62.6%; Score 790; DB 11; Length 229;  
 Best Local Similarity 63.9%; Pred. No. 2.3e-68;  
 Matches 147; Conservative 31; Mismatches 48; Indels 4; Gaps 3;

QY 1 MODEDGYITLNTKTRPALVSVGPASSFWMRVVALILILICVGMVGLVALGIMSWMQRN 60



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Db 1 MODBDGYITINIKRKQALSSAPASS-WWRVVALVLLISSMGIVGLVALGIMSTYQCK 59
QY 61 YLQDENENRTGTLQOLAKRFQCYVVKOSEL--KQTFKHKSCPCDINWRYGSCYCFR 118
Db 60 YLAEKENLSTLLOOLAKKFCQELIRQSEIKTKSTPE-HKCSFATYWRHGHGSCYCFR 118
QY 119 HNLWESKQCYCDMNTLTKIDNRNIVEYIKATHLIRWVGLSRQKSNVWKWEDSVI 178
Db 119 RNLWESKQCYCQNAVLVNTASQSTLDYAEITSVFWIGLSRQKSNVWKWEDSVI 178
QY 179 SENMFELEDDGKGNMCAVFNHNGSMHPTFCENKYLTCERKAGMTKVDOL 228
Db 179 RKNGINSGMTEEMNCAVILNKGKHPASCGERHYLCERKAGMTKVDOL 228

RESULT 4
Q9NCG01 PRELIMINARY; PRT; 280 AA.
ID Q9NCG01
AC Q9NCG01
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Hypothetical protein F4J90633.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Placenta;
RA Isegal T., Oca T., Nishikawa T., Hayashi K., Otsuki T., Sugiyama T.,
RA Suzuki Y., Nagai K., Sugano S., Ishii S., Kawai-Hio Y., Saito K.,
RA Yamamoto J., Wakamatsu A., Nakamura Y., Kojima S., Nagatani K.,
RA Hattori A., Okumura K., Iwayanagi T., Ninomiya K.,
RA Masuda Y., Oso T., Okano K., Yoshikawa Y., Aotsuka S., Sasaki N.,
RA "MDO human cDNA sequencing project."
RT Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
RL EMBL: AK075114; BAC11410.1;
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_C.1.
DR SMART: SM00034; CLECT; 1.
DR PROSITE: PSS0041; C_TYPE_LECTIN_2; 1.
KW Hypothetical protein.
SQ SEQUENCE 280 AA; 31966 MW; 138237D347553ED5 CRC64;

Query Match 28.0%; Score 352.5; DB 4; Length 280;
Best Local Similarity 29.1%; Pred. No. 6.2e-26;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MODEDGYITINIKRKPALV-----SVGPASSFWRWVALILLICVGVVGLVALGI 53
Db 11 MDDDDGTTWSLHSGSATTTHPPRRTREHAPDSSTWRPVALTLTLCTVLIGLALGL 70
QY 54 W-----SVGMQRY-----LDENENRTGTLQOLAKRFQCYVVKOSE 89
Db 71 LFFQYQLSNTGQDTISQMERLGNTSQELQVQIKLAGSLQHVAEKLCR-----E 124
QY 90 LKGTFFKHKSCPCDINWRYGSDCYGFFRNLTWESKQCYCDMNTLTKIDNRNIVEYI 149
Db 125 LYNKAGAHRSCTEQKWKMGDNCYQFYKSKSWEDCKYFCLSENSITMLKINQEDIEFA 184
QY 150 KARTH-----LIRWVGLSRQKSNVWKWEDSVISENMFELDD--GKGNMCAVFNHNGM 203
Db 185 ASQSYSEFFYSYTGILRPDSGKMLMWDGTPPTLSLPHIITDTSRPSRDCVAILNGMI 244
QY 204 HPTFCENKYLTCERKAGMTKVDOL 228
Db 245 FSKDCKELKRCVCERRAGWKPESL 269

RESULT 5
Q8IUV7

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ID Q8IUV7 PRELIMINARY; PRT; 280 AA.
AC Q8IUV7;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE C-type lectin-like receptor-1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Strausberg R.;
RL Submitted (NOV-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL: BC039072; AAF39072.1;
KW Receptor; Lectin.
SQ SEQUENCE 280 AA; 31952 MW; 138235ED47553F4B CRC64;

Query Match 27.3%; Score 351.5; DB 4; Length 280;
Best Local Similarity 29.1%; Pred. No. 7.7e-26;
Matches 77; Conservative 53; Mismatches 92; Indels 43; Gaps 6;

QY 1 MODEDGYITINIKRKPALV-----SVGPASSFWRWVALILLICVGVVGLVALGI 53
Db 11 MDDDDGTTWSLHSGSATTTHPPRRTREHAPDSSTWRPVALTLTLCTVLIGLALGL 70
QY 54 W-----SVGMQRY-----LDENENRTGTLQOLAKRFQCYVVKOSE 89
Db 71 LFFQYQLSNTGQDTISQMERLGNTSQELQVQIKLAGSLQHVAEKLCR-----E 124
QY 90 LKGTFFKHKSCPCDINWRYGSDCYGFFRNLTWESKQCYCDMNTLTKIDNRNIVEYI 149
Db 125 LYNKAGAHRSCTEQKWKMGDNCYQFYKSKSWEDCKYFCLSENSITMLKINQEDIEFA 184
QY 150 KARTH-----LIRWVGLSRQKSNVWKWEDSVISENMFELDD--GKGNMCAVFNHNGM 203
Db 185 ASQSYSEFFYSYTGILRPDSGKMLMWDGTPPTLSLPHIITDTSRPSRDCVAILNGMI 244
QY 204 HPTFCENKYLTCERKAGMTKVDOL 228
Db 245 FSKDCKELKRCVCERRAGWKPESL 269

RESULT 6
Q9NZH3
ID Q9NZH3 PRELIMINARY; PRT; 280 AA.
AC Q9NZH3;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
DE C-type lectin-like receptor-1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC MEDLINE=20133876; PubMed=10671229;
RA Colonna M., Samaridis J., Angman L.;
RT "Molecular characterization of two novel C-type lectin-like receptors,
RT one of which is selectively expressed in human dendritic cells."
RL Eur J Immunol. 30:697-704(2000).
DR EMBL: AF200949; AAF36830.1;
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; Lectin_C.1.
DR SMART: SM00034; CLECT; 1.
DR PROSITE: PSS0041; C_TYPE_LECTIN_2; 1.
KW Lectin; Receptor.
SQ SEQUENCE 280 AA; 32039 MW; 123C2C32F5F8F6F7 CRC64;

Query Match 27.5%; Score 346.5; DB 4; Length 280;
Best Local Similarity 28.7%; Pred. No. 2.4e-25;

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Matches 76; Conservative 53; Mismatches 93; Indels 43; Gaps 6;

QY 1 MODEDGYITLNIKTRKALV-----SVGPASSFWNRVVALILLICVGNVGLVALGI 53  
 DB 11 MLDDDDGTISLHSGASATTRHPRPRTERHAPSTTRPALTLTLCLVLVGLAAMGL 70  
 QY 54 W-----SVMOGRN-----LQDENENTGTLOQAKRFQCVVAKQSEL 89  
 DB 71 LRFQYVQLSTNGQDTISQMBRLCNISQELQVQVQIKLAGSLQVHAEKLCR-----E 124  
 QY 90 LKGTFKHKKSPCDTNNRRYYGDSGCGPFRNLTWESKQYCTDMNATLLKIDNRNIVEYI 149  
 DB 125 LYNKAGHRCSPCTEQKWKMGNDNCYQFYKDSKSWEDCKYCLSENATLKINQDELEFA 184  
 QY 150 KARTH-----LIRWGLSRQKSNRWKWDGVSISENFELED--GKNMCAVFNHNGM 203  
 DB 185 ASQSYSEFFSYWYVGLLRPDSGKAWMLMDGTPTSELFIHIIIVTSPRSDCVAILNGMI 244  
 QY 204 HPCFCKHLYMCGKAKGNTKVDL 228  
 DB 245 FSKDCKELKRCVCERRRGMVKPESL 269

RESULT 7  
 Q8BWY2  
 ID 08BWY2 PRELIMINARY; PRT; 269 AA.  
 AC 08BWY2  
 DT 01-MAR-2003 (Tremblrel, 23, Created)  
 DT 01-MAR-2003 (Tremblrel, 23, Last sequence update)  
 DT 01-MAR-2003 (Tremblrel, 23, Last annotation update)  
 DE Weakly similar to C-type lectin-like receptor-1.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 NX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Spinal cord;  
 RX MEDLINE=22354683; PubMed=12466851;  
 RA The FANTOM Consortium,  
 RA the Riken Genome Exploration Research Group Phase I & II Team;  
 RT "Analysis of the mouse transcriptome based on functional annotation of  
 RT 60,770 full-length cDNAs."  
 RL Nature 420:563-573 (2002).  
 DR EMBL: AK049608; BAC33840.1; -  
 SQ SEQUENCE 269 AA; 30958 MW; DEC53DB093451ED0 CRC64;

Query Match 27.3%; Score 344.5; DB 11; Length 269;  
 Best Local Similarity 31.9%; Pred. No. 3.5e-25;  
 Matches 82; Conservative 42; Mismatches 90; Indels 43; Gaps 8;

QY 1 MODEDGYITLNIKTRK--PALVSGPASSFWNRVVALILLICVGNVGLVALGI 54  
 DB 12 LDDDDGTISLHSGATSTVTRAPRPHSHNGTPSSV-WRPVALTLTLCLVLVGLAAMGL 70  
 QY 55 -----SVMOGRN-----YLQDENENTGTLOQAKRFQCVVAKQSEL 90  
 DB 71 FQFYVQLSTNGQDTISQMBRLCNISQELQVQVQIKLAGSLQVHAEKLCR-----E 124  
 QY 91 LKGTFKHKKSPCDTNNRRYYGDSGCGPFRNLTWESKQYCTDMNATLLKIDNRNIVEYI 150  
 DB 125 LYNKAGHRCSPCTEQKWKMGNDNCYQFYKDSKSWEDCKYCLSENATLKINQDELEFA 184  
 QY 151 ARTH-----LIRWGLSRQKSNRWKWDGVSISENFELEDGK--NANCAVFNHNGM 204  
 DB 185 ASQSYSEFFSYWYVGLLRPDSGKAWMLMDGTPTSELFIHIIIVTSPRSDCVAILNGMI 244  
 QY 203 PTFCKHLYMCGKAKG 221  
 DB 245 SKDCKELKRCVCERRRGMVKPESL 261

RESULT 8

Q8BWH5  
 ID 08BWH5 PRELIMINARY; PRT; 269 AA.  
 AC 08BWH5  
 DT 01-MAR-2003 (Tremblrel, 23, Created)  
 DT 01-MAR-2003 (Tremblrel, 23, Last sequence update)  
 DT 01-MAR-2003 (Tremblrel, 23, Last annotation update)  
 DE Weakly similar to C-type lectin-like receptor-1.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 NX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Forelimb;  
 RX MEDLINE=22354683; PubMed=12466851;  
 RA The FANTOM Consortium,  
 RA the Riken Genome Exploration Research Group Phase I & II Team;  
 RT "Analysis of the mouse transcriptome based on functional annotation of  
 RT 60,770 full-length cDNAs."  
 RL Nature 420:563-573 (2002).  
 DR EMBL: AK031122; BAC27264.1; -  
 SQ SEQUENCE 269 AA; 30970 MW; AB0377834451BC0 CRC64;

Query Match 27.2%; Score 342.5; DB 11; Length 269;  
 Best Local Similarity 31.5%; Pred. No. 5.5e-25;  
 Matches 81; Conservative 43; Mismatches 90; Indels 43; Gaps 8;

QY 1 MODEDGYITLNIKTRK--PALVSGPASSFWNRVVALILLICVGNVGLVALGI 54  
 DB 12 LDDDDGTISLHSGATSTVTRAPRPHSHNGTPSSV-WRPVALTLTLCLVLVGLAAMGL 70  
 QY 55 -----SVMOGRN-----YLQDENENTGTLOQAKRFQCVVAKQSEL 90  
 DB 71 FQFYVQLSTNGQDTISQMBRLCNISQELQVQVQIKLAGSLQVHAEKLCR-----E 124  
 QY 91 LKGTFKHKKSPCDTNNRRYYGDSGCGPFRNLTWESKQYCTDMNATLLKIDNRNIVEYI 150  
 DB 125 LYNKAGHRCSPCTEQKWKMGNDNCYQFYKDSKSWEDCKYCLSENATLKINQDELEFA 184  
 QY 151 ARTH-----LIRWGLSRQKSNRWKWDGVSISENFELEDGK--NANCAVFNHNGM 204  
 DB 185 ASQSYSEFFSYWYVGLLRPDSGKAWMLMDGTPTSELFIHIIIVTSPRSDCVAILNGMI 244  
 QY 203 PTFCKHLYMCGKAKG 221  
 DB 245 SKDCKELKRCVCERRRGMVKPESL 261

RESULT 9  
 Q9D403  
 ID 09D403 PRELIMINARY; PRT; 275 AA.  
 AC 09D403  
 DT 01-JUN-2001 (Tremblrel, 17, Created)  
 DT 01-JUN-2001 (Tremblrel, 17, Last sequence update)  
 DT 01-DEC-2001 (Tremblrel, 19, Last annotation update)  
 DE 4933425B163k protein.  
 GN 4933425B163k  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 NX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Testis;  
 RX MEDLINE=21085660; PubMed=11217851;  
 RA Kawal T., Shingawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,  
 RA Aizawa K., Izawa M., Fukunishi Y., Komoto H., Adachi J., Fukuda S.,  
 RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,  
 RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,  
 RA Fleischmann W., Gaasterland T., Gissi C., King B., Kocikawa H.,  
 RA Knehl P., Lewis S., Matsuo Y., Nakai T., Pesole G., Quackenbush J.,  
 RA Schriml L.M., Staudt F., Suzuki R., Tomita M., Wagner L., Washio T.,

RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,  
 RA Blake J., Boffelli D., Bojunga N., Carninci P., de la Hoz M.F.,  
 RA Brownstein M.J., Bull C., Fletcher C., Fujita M., Gariboldi M.,  
 RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamlita M., Lee N.H.,  
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Momberts P.,  
 RA Nodone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,  
 RA Sasaki H., Sato K., Schoenbach C., Seta T., Shibata Y., Storch K.-P.,  
 RA Suzuki H., Toyokawa K., Wang K.H., Weitz C., Whitaker C., Wilming L.,  
 RA Wyshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,  
 RA Hayashizaki Y.,  
 RA "Functional annotation of a full-length mouse cDNA collection,"  
 RT Nature 409:685-690(2001).  
 RL EMBL; AK016908; BAB30491.1; -  
 DR HSSP; P23807.11XX.  
 DR MGD; MGI:1918433; 4933425B16R1K.  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C; 1.  
 DR SMART; SM00034; CLECT; 1.  
 DR PROSITE; PSS0041; C-TYPE\_LECTIN\_2; 1.  
 SQ SEQUENCE 275 AA; 31360 MW; C9792BA25CB5CC2 CRC64;

Query Match 25.4%; Score 320; DB 11; Length 275;  
 Best Local Similarity 28.1%; Pred. No. 8.4e-23;  
 Matches 80; Conservative 48; Mismatches 69; Indels 68; Gaps 9;

QY 1 MODEGYITLNK-----TRKPAVSGPASPFWRVALLILICVGVWG 47  
 Db 1 MSDEVATITLMGOSAVRGGRDNNIRKSG---HFAQSLMGALLSTWTLCLVATG 56  
 QY 48 LVALGISVWGRNYLDENE-----NRGTLT----- 73  
 Db 57 LVLTATWFLGYSDINDSEKLSQLOKSIHPQCNLSSEINSRKSITBESLQSIALL 1-6  
 QY 74 ---QQLAKRRC-QYVAVQSELKTFKRGKSPCTNWRVYGDSCYGF-FRANLTWESKQ 128  
 Db 117 ERQGVQVAKUCKEFLHPSD-----HKCNPCPKTQWYGNSCYFINSERKSWDSRK 169  
 QY 129 YCTDMNATLLKIDN---RNIVEYIKARTHLIRWGLSRQSNSEWKEKEDSVISENF-- 183  
 Db 170 DCIDKNATLVKIDSTERDLISQSLSTFSPFWGLSWNSGGRWMLWEDCSFPPTLLSD 229  
 QY 184 EPLFEDGKNMCAVFNKGKMPFCENKHYLMCEKKAQMTKVDQ 228  
 Db 230 KEASFNGSRECAVFERGNITYSRCRAEIPWICEKASLVKIDQ 274

## RESULT 10

QYBXN2  
 ID QYBXN2 PRELIMINARY; PRT; 247 AA.  
 AC QYBXN2;  
 DT 01-JUN-2001 (TrEMBLrel. 17, Created)  
 DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)  
 DT 01-OCT-2002 (TrEMBLrel. 22, last annotation update)  
 DE Dendritic cell-associated C-type lectin-1 (DECTIN-1 receptor) (Lectin-  
 DE like receptor 1) (beta-glucan receptor isoform A).  
 GN DECTIN-1 OR DECTIN1 OR BGR.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
 OC NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=21363425; Pubmed=11470510;  
 RA Yokota K., Takashima A., Bergstresser P.R., Allison K.,  
 RT "Identification of a human homologue of the dendritic cell-associated  
 RT C-type lectin-1, dectin-1,"  
 RL Gene 272:51-60(2001).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RP Sobanov Y., Benreiter A., Derdak S., Mechtcheriakova D., Duechler M.,  
 RA Kalthoff F., Hofer E.,  
 RT "A novel cluster of lectin-like receptor genes expressed in monocytic,  
 RT dendritic and endothelial cells maps close to the NK receptor genes in

RT the human NK gene complex,"  
 RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.  
 RN [3]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=21363615; Pubmed=11491532;  
 RA Hernandez-Falcon P., Arce I., Rodea-Navarro P., Fernandez-Ruiz E.,  
 RT "Cloning of human DECTIN-1, a novel N-type lectin-like receptor gene  
 RT expressed on dendritic cells,"  
 RL Immunogenetics 53:288-295(2001).  
 RN [4]  
 RP SEQUENCE FROM N.A.  
 RA Hernandez-Falcon P., Arce I., Fernandez-Ruiz E.,  
 RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.

QY 15 SEQUENCE FROM N.A.  
 RC TISSUE=Peripheral blood leukocytes;  
 RA Willment J.A., Gordon S., Brown G.D.,  
 RT "Characterization of the human beta-glucan receptor and its  
 RT alternatively spliced isoforms,"  
 RL J. Biol. Chem. 0:0-0(2001).  
 DR EMBL; AF313468; AAK37473.1; -  
 DR EMBL; AJ212373; CAC43847.1; -  
 DR EMBL; AY026769; AAK20114.2; -  
 DR EMBL; AF400595; AAL11711.1; -  
 DR Genew; HGNC:14568; CLECSR12.  
 DR InterPro; IPR02385; AntifreezeZell.  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C; 1.  
 DR PRINTS; PRO0356; ANTIFREEZEIT.  
 DR SMART; SM00034; CLECT; 1.  
 DR PROSITE; PSS0041; C-TYPE\_LECTIN\_2; 1.  
 KV Lectin, Receptor.  
 SQ SEQUENCE 247 AA; 27627 MW; 98393E3697611B9 CRC64;

Query Match 23.8%; Score 299.5; DB 4; Length 247;  
 Best Local Similarity 31.0%; Pred. No. 7.1e-21;  
 Matches 75; Conservative 40; Mismatches 100; Indels 27; Gaps 6;

QY 3 DEDGYITLNKIRKPAIVSY-----GPASSFWRVALLILICVGVWGVLVALGIVSM 57  
 Db 11 DEDGYITLHFDQSNTRIAVVSEKSCASPPRLIAVLIGLIVLIVAVLIGTAIW 70  
 QY 58 QNR-----YLDENENRTGTLQQLAKRCQYVAVQSELKTFKRGKSPCTNWR 107  
 Db 71 RSNVSGSNTLENGYFLSRNKNHNSQPTQSSIE--DVTPTKAVKTL--GVLSPPCPPMWI 125  
 QY 108 YVGDSCYGFERNLTWESKQCYCTDMNATLLKIDNHN---IYEVIKARTHLIRWGLSR 163  
 Db 126 IYKSCYILSMISNSWDGSRQCVQGLSNTLKIDSSNELGFIYKQVSSQPDNSFMIQLSR 185  
 QY 164 QKSNBYWKKEDGVSISENMFEP--LEDGKNMCAVFNKGKMPFCENKHYLMCEKKA 220  
 Db 186 POTEVFWLWEDGSTFSSNIFQITATQENPSPNCVMIHVSIVYDQICVPSYSICEKFE 245  
 QY 221 GM 222  
 Db 246 SM 247

## RESULT 11

QYBX14  
 ID QYBX14 PRELIMINARY; PRT; 244 AA.  
 AC QYBX14;  
 DT 01-OCT-2002 (TrEMBLrel. 22, Created)  
 DT 01-OCT-2002 (TrEMBLrel. 22, last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, last annotation update)  
 DE Similar to C-type (Calcium dependent, carbohydrate recognition domain)  
 DE lectin, superfamily member 12.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 OC NCBI\_TaxID=10090;  
 RN [1]

RP SEQUENCE FROM N.A.  
 RA Strausberg R;  
 RI Submitted (Apr-2002) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; BC027742; AAH27742.1;  
 DR InterPro; IPR002353; Antifreeze1.  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C; 1.  
 DR PRINTS; PR00356; ANTIFREEZE1.  
 DR SMART; SM00034; CLECT; 1.  
 DR PROSITE; PS0041; C\_TYPE\_LECTIN\_2; 1.  
 SQ SEQUENCE 244 AA; 27542 MW; F50158025FA80C2A CRC64;

Query Match 23.1%; Score 291; DB 11; Length 244;  
 Best Local Similarity 31.8%; Pred. No. 4.7e-20;  
 Matches 76; Conservative 33; Mismatches 102; Indels 28; Gaps 8;

QY 3 DEDGYTLNKT-----RKPLVSVGP-ASSFWRWVALILLICVGVVGLVALGIVSV 57  
 DB 11 DEDGYTLDESTQDIHKRPGSEKSRAPSSPMRPVIGLGLCVVVVVAVALGLAFW 70  
 QY 58 QR-----NYLDENENRIGTLOQLAKRFQIVVVKSELKGTFGKHKCSPCDTNWR 107  
 DB 71 RHNSGNRPEKCKMPPSPNNKNHKTPESSLDKXAP--SKASQTTGSPS---QPCLEPMT 124  
 QY 108 YVGDSCYGFPRNLTWESKQYCTDMNATLLKIDNRNIVEYIKART--ELIR-WYGLSR 163  
 DB 125 MHKSCYLFSPGNSWYSGKRHSQGLAHILKIDNSKEFPFIESQTSIHITAFWIGLSR 184  
 QY 164 QKSNVWKWEDGVSISENMFPLEDGKNN--NCAYFNGKMHPTFCENKHYLMGCRK 215  
 DB 185 NQSEGFWEFDGSAFPFNSFOVNTAPQESLLHNCVWIGHSEVYNQICNTSSYSICEKE 243

RESULT 12  
 Q9JUI50 PRELIMINARY; PRT; 244 AA.

AC Q9JUI50;  
 DT 01-OCT-2000 (TREMBlrel. 15, Created)  
 DT 01-OCT-2000 (TREMBlrel. 15, Last sequence update)  
 DT 01-OCT-2002 (TREMBlrel. 22, Last annotation update)  
 DN Dendritic cell-associated C-type lectin-1.  
 GN CLEC5F12 OR DECTIN-1.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathii; Muridae; Murinae; Mus.  
 CX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=BALB/c;  
 RX MEDLINE=20347934; PubMed=10779524;  
 RA Aizumi K., Shen G.-L., Shikano S., Xu S., Ritter R. III,  
 RA Kimamoto T., Edlbaum D., Morita A., Bergtesser P.R., Takashima A.;  
 RT "Identification of a novel, dendritic cell-associated molecule,  
 RT "dectin-1, by subtractive cDNA cloning."  
 RL J. Biol. Chem. 275:20157-20167(2000).  
 DR EMBL; AF262985; AAF72710.1;  
 DR MGD; MGI:1861431; Clec5f12.  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C; 1.  
 DR SMART; SM00034; CLECT; 1.  
 DR PROSITE; PS0041; C\_TYPE\_LECTIN\_2; 1.  
 DR Lectin.  
 SQ SEQUENCE 244 AA; 27621 MW; 55A71C04E68CA002 CRC64;

Query Match 22.8%; Score 288; DB 11; Length 244;  
 Best Local Similarity 32.8%; Pred. No. 9.1e-20;  
 Matches 78; Conservative 32; Mismatches 101; Indels 28; Gaps 9;  
 QY 3 DEDGYTLNKT-----RKPLVSVGP-ASSFWRWVALILLICVGVVGLVALGIVSV 57  
 DB 11 DEDGYTLDESTQDIHKRPGSEKSRAPSSPMRPVIGLGLCVVVVVAVALGLAFW 70  
 QY 58 QR-----NYLDENENRIGTLOQLAKRFQIVVVKSELKGTFGKHKCSPCDTNWR 107

DB 71 RHNSGNRPEKCKMPPSPNNKNHKTPESSLDKXAP--SKASQTTGSPS---QPCLEPMT 124  
 QY 108 YVGDSCYGFPRNLTWESKQYCTDMNATLLKIDNRNIVEYIKART--ELIR-WYGLSR 163  
 DB 125 MHKSCYLFSPGNSWYSGKRHSQGLAHILKIDNSKEFPFIESQTSIHITAFWIGLSR 184  
 QY 164 QKSNVWKWEDGVSISENMFPLEDGKNN--NCAYFNGKMHPTFCENKHYLMGCRK 215  
 DB 185 NQSEGFWEFDGSAFPFNSFOVNTAPQESLLHNCVWIGHSEVYNQICNTSSYSICEKE 243

RESULT 13  
 Q9EZR8 PRELIMINARY; PRT; 247 AA.

ID Q9EZR8;  
 AC Q9EZR8;  
 DT 01-MAR-2003 (TREMBlrel. 23, Created)  
 DT 01-MAR-2003 (TREMBlrel. 23, Last sequence update)  
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)  
 DN Dendritic cell-associated C-type lectin-1.  
 OS Macaca mulatta (Rhesus macaque).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;  
 OC Cercopithecoidea; Macaca.  
 CX NCBI\_TaxID=9544;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Choi Y.K., Fallert B.A., Murphy-Corb M.A., Reinhart T.A.;  
 RA "Simian Immunodeficiency Virus Dramatically Alters Expression of  
 RT Homeostatic Chemokines and Dendritic Cell Markers During Infection In  
 RT Vivo."  
 RL Blood 0:0-0(2002).  
 DR EMBL; AF508729; AAN47097.1;  
 DR Lectin.  
 SQ SEQUENCE 247 AA; 27648 MW; 9DF0D86DF2461518 CRC64;

Query Match 22.8%; Score 287.5; DB 6; Length 247;  
 Best Local Similarity 30.1%; Pred. No. 1e-19;  
 Matches 72; Conservative 44; Mismatches 102; Indels 21; Gaps 6;

QY 3 DEDGYTLNKT-----RKPLVSVGP-ASSFWRWVALILLICVGVVGLVALGIVSV 57  
 DB 11 DEDGYTLDESTQDIHKRPGSEKSRAPSSPMRPVIGLGLCVVVVVAVALGLAFW 70  
 QY 58 QR-----NYLDENENRIGTLOQLAKRFQIVVVKSELKGTFGKHKCSPCDTNWR 110  
 DB 71 RHNSGNRPEKCKMPPSPNNKNHKTPESSLDKXAP--SKASQTTGSPS---QPCLEPMT 124  
 QY 111 DSCYGFPRNLTWESKQYCTDMNATLLKIDNRNIVEYIKART--ELIR-WYGLSR 166  
 DB 129 KQCYLFSPGNSWYSGKRHSQGLAHILKIDNSKEFPFIESQTSIHITAFWIGLSR 188  
 QY 167 NQSEGFWEFDGSAFPFNSFOVNTAPQESLLHNCVWIGHSEVYNQICNTSSYSICEKE 222  
 DB 189 EYFPMWLEDGSTFSSNLFQRTAQENPSPNVCWVHVSITVQQLSVSPSCSICEKFSM 247

RESULT 14  
 Q9HIK3 PRELIMINARY; PRT; 201 AA.  
 ID Q9HIK3;  
 AC Q9HIK3;  
 DT 01-MAR-2001 (TREMBlrel. 16, Created)  
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)  
 DT 01-OCT-2002 (TREMBlrel. 22, Last annotation update)  
 DN Putative transmembrane protein dectin-1 (dendritic cell-associated  
 DN C-type lectin-1 beta) (DECTIN-1 receptor) (lectin-like receptor 1B)  
 GN (beta-glucan receptor isoform 3).  
 DR Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homitidae; Homo.  
 CX NCBI\_TaxID=9606;  
 RN [1]



KW Lectin.  
 SQ SEQUENCE 265 AA; 30761 MW; 4255FF1EA9300ED1 CRC64;  
 Query Match 21.0%; Score 265; DB 4; Length 265;  
 Best Local Similarity 28.3%; Pred. No. 1.7e-17;  
 Matches 73; Conservative 39; Mismatches 102; Indels 44; Gaps 5;

QY 1 MODEGYTITNKI-----RKDALVSG---PASFWRWALILLICGVAVGLAL 51  
 DB 1 MSEEVTADLPQFNSSEMEKIPEIGKFGKAPAPASHWRPALLFLLICLLILGLVL 60  
 QY 52 -----GIWVQRY-----LODENRIGTLOGLAKRPGQY 83  
 DB 61 ASMRVTLIKIMKKKKKQNISEELQRIISLIQMSNNATISKIRLSTLTQTIKLCR- 119  
 QY 84 VKQSELKGTFGKHKCSPCDTNRYYGSCYGFPRNLTWESKQYCTDNATLTKIDNR 143  
 DB 120 -----ELYSKEQEHKCPRRMIWHDSCYFLSDVQTWESKQACQASILKINK 174  
 QY 144 NIVEYIKARHLI-RWGLSKQKSNVWKMDGSAVISNMFELEDGKNNKCYPHNGK 202  
 DB 175 NALERISQSRSGYDYWGLSPEDSTRGMRVDNTINSNAWVIRNAPDINWYCGYINRLY 234  
 QY 203 MHPTECNKHYLMCEKA 220  
 DB 235 VQYHCTYKQEMICRMA 252

RESULT 17  
 QYTK7 PRELIMINARY; PRT; 274 AA.  
 AC Q9TK7;  
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)  
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)  
 DE Lectin-like oxidized LDL receptor-1.  
 GN PLOX-1.  
 OS Sus scrofa (Pig).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Cetartiodactyla; Suidae; Suidae; Sus.  
 OX NCBI\_TaxID=9623;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=21181560; PubMed=11284714;  
 RA Chen M., Narumiya S., Masaki T., Sawamura T.,  
 RT "Conserved C-terminal residues within the lectin-like domain of LOX-1  
 RT are essential for oxidized low-density lipoprotein binding.";  
 RL Biochem. J. 355:289-296 (2001).  
 DR EMBL; AB018668; BAA88894.1; -;  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C; 1.  
 DR SMART; SM00034; CLECT\_1.  
 DR PROSITE; PSS0041; C\_TYPE\_LLECTIN\_2; 1.  
 KW Receptor.  
 SQ SEQUENCE 274 AA; 31142 MW; D141776C79FB42E0 CRC64;

Query Match 20.2%; Score 254.5; DB 6; Length 274;  
 Best Local Similarity 26.2%; Pred. No. 1.e-16;  
 Matches 66; Conservative 50; Mismatches 81; Indels 55; Gaps 8;

QY 23 GP--ASSFWRWALILLICGVAVGLALGI-----WS 55  
 DB 26 GPRSLSTLRWRPALITGLICGLVIVLILLIQLQSVSLKQKYLTHQDILHGA 85  
 QY 56 VMGRNYQDENR---TGLQLAKFCQYVVKSLK-----GTFGKHC 99  
 DB 86 LAQRQKSSQSQREITETIETLAHLIDKSKKMLQONLQKALEKANFGS--- 142  
 QY 100 SPQDTWRYGSCYGFPRNLTWESKQYCTDNATLTKIDNRIVEYIK---ASTHLI 156  
 DB 143 -PCPQWLMHBEHCYFSSGPFMSKSRKENCSLDAQLKINSTDTLEFIQDTIASSSP 201  
 QY 157 RWGLSKQKSNVWKMDGSAVISNMFELEDGKNNK---NCAYPHNGKHPTECNK 212

DB 202 FWMGLSIRKFNNSWLMWEDGPIPMHPR-LQGAASQWPSGTQAYIHRGIVFANCLINA 260  
 QY 213 YLMERKAGMTK 224  
 DB 261 PSICQKRNILR 272

RESULT 18  
 P78380 PRELIMINARY; PRT; 273 AA.  
 ID P78380  
 AC P78380;  
 DT 01-MAY-1997 (TrEMBLrel. 03, Created)  
 DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE Lectin-like oxidized LDL receptor (oxidized low density lipoprotein  
 DE (lectin-like) receptor 1).  
 GN LOX-1 OR OLRL.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX TISSUE=Lung;  
 RX MEDLINE=97205278; PubMed=9052782;  
 RA Sawamura T., Kume S., Aoyama T., Moriaki H., Hoshikawa H., Aiba Y.,  
 RA Tanaka T., Miwa S., Katsura Y., Kita T., Masaki T.,  
 RT "An endothelial receptor for oxidized low-density lipoprotein.";  
 RL Nature 386:73-77 (1997).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX TISSUE=Blood;  
 RA Miller D.S.;  
 RL Submitted (FEB-1999) to the EMBL/GenBank/DDJ databases.  
 RN [3]  
 RP SEQUENCE FROM N.A.  
 RA Li X., Bouzyk M.M., Wang X.K.;  
 RT "Human oxidized low density lipoprotein receptor: characterization of  
 RT the full length cDNA sequence and assignment to human chromosome  
 RT 12p13.1-12.3";  
 RL Submitted (NOV-1997) to the EMBL/GenBank/DDJ databases.  
 RN [4]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=99047525; PubMed=982812;  
 RA Yamanaka S., Zhang X.Y., Miura K., Kim S., Iwao H.;  
 RT "The human gene encoding the lectin-type oxidized LDL receptor (OLRL)  
 RT is a novel member of the natural killer gene complex with a unique  
 RT expression profile.";  
 RL Genomics 54:191-199 (1998).  
 RN [5]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Placenta;  
 RA Strausberg R.;  
 RL Submitted (FEB-2002) to the EMBL/GenBank/DDJ databases.  
 DR EMBL; AB010710; BAA24580.1; -;  
 DR EMBL; AJ131757; CAB38475.1; -;  
 DR EMBL; AF035776; AAC82329.1; -;  
 DR EMBL; AF079167; AAC97927.1; -;  
 DR EMBL; AF079165; AAC97927.1; JOINED.  
 DR EMBL; AF079164; AAC97927.1; JOINED.  
 DR EMBL; BC022295; AAH22295.1; -;  
 DR Genew; HGNC:8133; OLRL.  
 DR InterPro; IPR002353; Antifreeze-1.  
 DR Pfam; PF00059; Lectin\_C; 1.  
 DR PRINTS; PR00356; ANTI-FREEZE1.  
 DR SMART; SM00034; CLECT\_1.  
 DR PROSITE; PSS0041; C\_TYPE\_LLECTIN\_2; 1.  
 KW Lectin; Lipoprotein; Receptor.  
 SQ SEQUENCE 273 AA; 30959 MW; 852DE6595DC3J361 CRC64;

Query Match 19.8%; Score 249.5; DB 4; Length 273;  
 Best Local Similarity 25.7%; Pred. No. 5.5e-16;  
 Matches 62; Conservative 50; Mismatches 79; Indels 51; Gaps 7;

Db 23 WRRVALLILLCVGVNVGLVNLGIMSVQGRNYLDENENRT-----70  
 34 WGLLAATIGVLCGLGVYIVVLMGQLSGVSDILTQEQANTLTHQKKLLEGQISARQAAE 93  
 QY 71 -----GTLQOLAKRFCCQYVVKSE-----LKTFPG-HKCS-PCDTMRYGD 111  
 Db 94 ASQSENELKEMIEITLARLNKSKQEMELHONINLOETLKVANCSAPCPQDIWHE 153  
 QY 112 SCYGFRRNLTWESKQCTDMATLKIDNENIVEYK--ARTHLIRVWG-SRQKNE 168  
 Db 154 NCYLFSGSGSFVWEKQKCLSIDAKLLKINSTADDFIQQATISYSPFFWGLSFRNSY 213  
 QY 169 VVKWEDGVSINEMREFLEDGKNN-----CAFYNGKMHPTFCNKHYLMGERRAG 221  
 Db 214 FVWEDGSPILFPHLRV---RGAVSQYPSGTCAVYIGRGAVENTLIAAFSICQKXAN 269  
 QY 222 M 222  
 Db 270 L 270

## RESULT 19

P79391 PRELIMINARY; PRT; 270 AA.  
 AC P79391;  
 DT 01-MAY-1997 (TREMBLrel. 03, Created)  
 DT 01-MAY-1997 (TREMBLrel. 03, Last sequence update)  
 DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)  
 DE Lectin-like oxidized LDL receptor.  
 OS Bos taurus (Bovine).  
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;  
 OC Bovidae; Bovinae; Bos.  
 CX NCBI\_TaxID=9913;  
 RX MEDLINE=97205278; PubMed=9052782;  
 RA Sawamura T., Kume N., Aoyama T., Moriwaki H., Hoshikawa H., Alba Y.,  
 Tanaka T., Miwa S., Katsura Y., Kita T., Masaki T.,  
 RT "an endothelial receptor for oxidized low-density lipoprotein.";  
 RL Nature 386:73-77(1997).  
 DR EMBL: D89049; BAA19005.1; -  
 DR InterPro: IPR003353; AntiFreezeit.  
 DR InterPro: IPR003304; Lectin\_C.  
 DR Pfam: PF00059; lectin\_c\_1.  
 DR PRINTS: PR00356; ANTIFREEZEIT.  
 DR SMART: SM00034; CLECT\_1.  
 DR PROSITE: PS50041; C\_TYPE\_LLECTIN\_2; 1.  
 KW Receptor.  
 SQ SEQUENCE 270 AA; 30892 MW; 6055B6881AD7053D CRC64;

Query Match 19.2%; Score 242.5; DB 6; Length 270;  
 Best Local Similarity 25.2%; Pred. No. 2.6e-15;  
 Matches 66; Conservative 54; Mismatches 83; Indels 59; Gaps 9;

Db 11 NIKTRPATVSVPPASSFWRRVALLILLCVGVNVGLVNLGIMSVQGRNYLDENENRT 70  
 18 NGKTLAK-----GFVSSWRVPAVTVLGVCLSLVTVIL-----ILQSQVSDILIKQ 67  
 QY 71 GTL-----QOLAKRFCCQYVVKOS--ELKGTFK--GHR-----98  
 Db 68 ANITHQEDILEGQILAQRSSEKSAQSQEKEMITLAKDKDEKSKIMELHQRQNLNQ 127  
 QY 99 -----CSPEDTWRYVYDSCYCFRRNLTWESKQCTDMATLKIDNENIVEY 149  
 Db 128 EVTKRANYSGPDPQMLWHEENCYQFSSGSFVWEKQKCLSIDAKLLKINSTDELPT 187  
 QY 150 K--ARTHLIRVWGLSRQKSNVWKWEDGVSINEMREFLEDGKNN---NCAVYHNK 202

Db 168 QQMIASHSPFPMGLSNKPNYSWIMEDGTLLTPLLFR-IQGVSRMYPSTCAVYIGRT 246  
 QY 203 WHPTFCNKHYLMGERRKAGMTK 224  
 Db 247 VEAENCILTAFSICQKXANLRL 268

## RESULT 20

Q8BN96 PRELIMINARY; PRT; 267 AA.  
 AC Q8BN96;  
 DT 01-MAR-2003 (TREMBLrel. 23, Created)  
 DT 01-MAR-2003 (TREMBLrel. 23, Last sequence update)  
 DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)  
 DE Hypothetical C-type lectin domain containing protein.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 CX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Eye;  
 RX MEDLINE=22354683; PubMed=12466851;  
 RA The FANTOM Consortium,  
 RA The RIKEN Genome Exploration Research Group Phase I & II Team;  
 RT "Analysis of the mouse transcriptome based on functional annotation of  
 RT 60,770 full-length cDNAs.";  
 DR EMBL: AK084335; BAC39163.1; -  
 KW Hypothetical protein.  
 SQ SEQUENCE 267 AA; 30697 MW; DC57E7268941B9F7 CRC64;

Query Match 18.6%; Score 234.5; DB 11; Length 267;  
 Best Local Similarity 26.4%; Pred. No. 1.5e-14;  
 Matches 60; Conservative 40; Mismatches 82; Indels 45; Gaps 6;

QY 35 LILILLCVGVNVGLVNLG-----LWSVQGRNYLD-----DEN-----66  
 Db 44 LILILLCLEFLFMGVYIGGIFYYTLATTEMKNSQLOKARKELEQENSLQKHNLSKKI 103  
 QY 67 ENRTGTLQOLAKRFCCQYVVKSELKGFPHKHKSPCDTMRYVYDSCYGFRRNLTWES 126  
 Db 104 KNLSMTLQSTATOLCR-----LVSKEPHKCKPPCKSEWKDSCYGLNQYGTQES 157  
 QY 127 KQYCTDMATLKIDNENIVEYKARTHLIRVWG-SRQKNEVWKWEDGVSINEMF---183  
 Db 158 VVACSARNASLILKVKKKDVLEFVKYKKLRVFWLALPRKDRGTYP-----LSKPTLSE 211  
 QY 184 --ELEDGKNNKCAVFNHGRKMHPTFCNKHYLMGERRKAGMTKYDOL 228  
 Db 212 ESRSTDDIDDKYCGTIDRVNVYTYCTDENNITCETASKVQLSEV 258

## RESULT 21

Q8BRU4 PRELIMINARY; PRT; 238 AA.  
 AC Q8BRU4;  
 DT 01-MAR-2003 (TREMBLrel. 23, Created)  
 DT 01-MAR-2003 (TREMBLrel. 23, Last sequence update)  
 DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)  
 DE Hypothetical C-type lectin domain containing protein.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 CX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Artery and vein;  
 RX MEDLINE=22354683; PubMed=12466851;  
 RA The FANTOM Consortium,  
 RA The RIKEN Genome Exploration Research Group Phase I & II Team;  
 RT "Analysis of the mouse transcriptome based on functional annotation of  
 RT 60,770 full-length cDNAs.";

RL Nature 420:563-573(2002).  
 DR EMBL; AK041288; BAC30890.1; -  
 KW Hypothetical protein.  
 SQ SEQUENCE 238 AA; 27014 MW; 07368A0380B95E81 CRC64;

Query Match 18.3%; Score 233.5; DB 11; Length 238;  
 Best Local Similarity 26.2%; Pred. No. 1.7e-14;  
 Matches 62; Conservative 44; Mismatches 110; Indels 21; Gaps 5;

QY 1 MODEDGYITL--NITKRPALVSVGPAS-SFWWVMAILLILICVGVVGLVAGISVM 57  
 DB 1 MEAEIYTSLOWDIPISASQKCSPSKSGAMCVVMISCVMGGLATISIFGIKFPQ 60  
 QY 58 QRYALQDENE-----NRCTLOAKRFQYVVKXSEKGTGKHKSGPCDTNR 107  
 DB 61 VSSLVLEQOERLLIQDTALVNTQMRKTYLTCQALQKS---LHSGSDSPCPHNWI 116  
 QY 108 YYGDSYGFPHNLFWESKQYCTDNATLLIKTDNENIVEYI---KARTHLRWGLSLR 163  
 DB 117 QNGKSCYYVFERWEMWNISKSCIKEGASLFOIDSXEMEGTSSIGLKQGNKXVWGVFP 176  
 QY 164 QKSNWKKWEDGSVISNMFEELEDGKNVCAVFNHGKXHPTECNKHYLMCEKRA 220  
 DB 177 DGISGFWWEDGSSPSDLIPARQRSAGQICGYLKDSTLISDKDSWKYFICEKRA 233

RESULT 22  
 Q8B231 PRELIMINARY; PRT; 206 AA.  
 AC Q8B231;  
 DT 01-MAR-2003 (Tremblrel. 23, Created)  
 DT 01-MAR-2003 (Tremblrel. 23, Last sequence update)  
 DE 01-MAR-2003 (Tremblrel. 23, Last annotation update)  
 DB Weakly similar to C-type lectin-like receptor-1.  
 OS Mus musculus (Mouse)  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 NX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Vagina;  
 RX MEDLINE=22354683; PubMed=12466851;  
 RA The FANTOM Consortium.  
 RA the RIKEN Genome Exploration Research Group Phase I & II Team;  
 RT "Analysis of the mouse transcriptome based on functional annotation of  
 RT 60,770 full-length cDNAs."  
 RL Nature 420:563-573(2002).  
 DR EMBL; AK036846; BAC29605.1; -  
 SQ SEQUENCE 206 AA; 23161 MW; 44900DB72DB7845A CRC64;

Query Match 18.4%; Score 232.5; DB 11; Length 206;  
 Best Local Similarity 32.9%; Pred. No. 1.7e-14;  
 Matches 57; Conservative 26; Mismatches 51; Indels 37; Gaps 6;

QY 1 MODEDGYITL--NITKRP--PALVSVGPASSFWWVMAILLILICVGVVGLVAGIWM 54  
 DB 12 LDDDDTTLSLXGTSVTRFAPRPSHSENGTPSSV--WRPALTLITLCLVLAIGLAIGLV 70  
 QY 55 -----SVQGN-----YIODEENRTGLTQCLARKFQYVVKQSL 90  
 DB 71 FQFQYLSNIQDSTREKDEKGNNSRQOSIQDQKRIETLQYAVVLCR-----EL 124  
 QY 91 KGTFGKHKSCPCDTNWRYYGDSYGFPRNLFWESKQYCTDNATLLIKTDNR 143  
 DB 125 YNKGSGHGSGSPERKWKYGDCKYCYKESKXWQSGEYCLADNATMLKISIQ 177

RESULT 23  
 Q86PA7 PRELIMINARY; PRT; 168 AA.  
 AC Q86PA7;  
 DT 01-DEC-2001 (Tremblrel. 19, Created)  
 DT 01-DEC-2001 (Tremblrel. 19, Last sequence update)

DT 01-MAR-2003 (Tremblrel. 23, Last annotation update)  
 D2 beta-glucan receptor isoform E.  
 GN BGR.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.  
 NX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Willment J.A., Gordon S., Brown G.D.;  
 RT "Characterization of the human beta-glucan receptor and its  
 RT alternatively spliced isoforms."  
 RL J.Biol.Chem. 0:0-0(2001).  
 DR EMBL; AF400599; AAU11715.1; -  
 DR InterPro; IPR002353; AntiFreeze1.  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C\_1.  
 DR PRINTS; PR00356; ANTI-FREEZE1.  
 DR SMART; SM00034; CLECT\_1.  
 DR PROSITE; PS50041; C\_TYPE\_LECTIN\_2; 1.  
 KW Receptor.  
 SQ SEQUENCE 168 AA; 19217 MW; AFD3A8F893B3FC6 CRC64;

Query Match 18.3%; Score 230.5; DB 4; Length 168;  
 Best Local Similarity 34.8%; Pred. No. 2.1e-14;  
 Matches 47; Conservative 21; Mismatches 60; Indels 7; Gaps 2;

QY 95 KKHKSPCDTNWRYYGDSYGFPHNLFWESKQYCTDNATLLIKTDNEN--IYEYK 150  
 DB 34 KCVLSPPCPFNWITRKSCYILFSMSLNSWDGSKRQCWQLSNLTIDSNEIGFYKQVS 93  
 QY 151 AATHLIRWGLSRQSNENWKKWEDGSVISNMFEELEDGKNVCAVFNHGKXHPTE 207  
 DB 94 SQPDNSFWIGLSRPOTEPVWLMWEDGSTSSNLFQRTTATQENPSNCAWIVHSVYDQL 153  
 QY 208 CENKHYLMCEKRAKM 222  
 DB 154 CVPYSISICEKRFEM 168

RESULT 24  
 Q8CB84 PRELIMINARY; PRT; 293 AA.  
 AC Q8CB84;  
 DT 01-MAR-2003 (Tremblrel. 23, Created)  
 DT 01-MAR-2003 (Tremblrel. 23, Last sequence update)  
 DE 01-MAR-2003 (Tremblrel. 23, Last annotation update)  
 DB Hypothetical C-type lectin domain containing protein.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 NX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=C57BL/6J; TISSUE=Bone;  
 RX MEDLINE=22354683; PubMed=12466851;  
 RA The FANTOM Consortium.  
 RA the RIKEN Genome Exploration Research Group Phase I & II Team;  
 RT "Analysis of the mouse transcriptome based on functional annotation of  
 RT 60,770 full-length cDNAs."  
 RL Nature 420:563-573(2002).  
 DR EMBL; AK036399; BAC29411.1; -  
 KW Hypothetical protein.  
 SQ SEQUENCE 293 AA; 33254 MW; 96EABEF1AB57DD CRC64;

Query Match 18.0%; Score 227.5; DB 11; Length 293;  
 Best Local Similarity 24.7%; Pred. No. 8.1e-14;  
 Matches 64; Conservative 44; Mismatches 112; Indels 39; Gaps 5;

QY 1 MODEDGYITL--NITKRPALVSVGPAS-SFWWVMAILLILICVGVVGLVAGISVM 57  
 DB 1 MEAEIYTSLOWDIPISASQKCSPSKSGAMCVVMISCVMGGLATISIFGIKFPQ 60



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QY 58 QNRYLODENE-----NRGTLOOLANRFOQYVVKOSLKG----- 93
DB 61 VSSLVLEQOEHLIQODTALVMTQWRKYLETYCOALQRLSHGSLDASTPVLITSPQM 120
QY 94 -----FKGHKSPCDTNRWRYGDSYCGYFRNLNLTWESKQYCTDNATLKIKNRT 145
DB 121 VPQLDSEFSTSDSCPHNWIIONGKSCYVFERSEWENWISKSKCLXEGASLFGIDSKBE 160
QY 146 VEYI-----KARTHLIRWVGLSRQSNFVWKWEDGSVISENMFELDEGKGNMCAYPHNG 201
DB 181 MEPISSIGKLGKGNKYVWGVZQDGISSGFWEDGSSPLSDLPNBRORSAGQICGYLKDS 240
QY 202 KHAFTPCENKHYLMCEKKA 220
DB 241 TLISDKCDSWXYFICEKKA 259

RESULT 25
Q8MJHU PRELIMINARY; PRT; 216 AA.
ID Q8MJHU
AC Q8MJHU;
DT 01-OCT-2002 (TREMBlrel. 22, Created)
DT 01-OCT-2002 (TREMBlrel. 22, Last sequence update)
DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE Natural killer cell lectin-like receptor.
GN POPY-NKG2D.
OS Pongo pygmaeus (Orangutan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pongo.
OX NCBI_Taxid=9600;
[1]
SEQUENCE FROM N.A.
RX MEDLINE=22072192; PubMed=12077248;
RA Gueltheln L.A., Flodin L.R., Adams E.U., Parham P.;
RT "NK Cell Receptors of the Orangutan (Pongo pygmaeus): A Pivotal
RT Species for Tracking the Coevolution of Killer Cell Ig-Like Receptors
RT with MHC-C";
RL J. Immunol. 169:220-229(2002).
DR EMBL: AF470403; AAM78503.1; -.
DR InterPro: IPR002353; Antifreeze-I.
DR Pfam: PF00059; Lectin_C.
DR PRINTS: PR00356; ANTI-FREZE-IT.
DR SMART: SM00034; CLECT; 1.
DR PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
KW Receptor; Lectin.
SQ SEQUENCE 216 AA; 25211 MW; 9224BF44924903FF CRC64;

Query Match 17.6%; Score 222; DB 6; Length 216;
Best Local Similarity 29.3%; Pred. No. 1.9e-13;
Matches 56; Conservative 37; Mismatches 60; Indels 38; Gaps 9;

QY 38 LILC--VGVWVG--LVALGIVSWQRYLQDENENRTSTLOOLAKRFOYVVKOSLKG 92
DB 53 LFCCCFIATMGIRITVMTTISAVFLNSL-----FNQEV--QIPLTG 93
QY 93 TFKGKXCFCDTNRWRYGDSYCGYFRNLNLTWESKQYCTDNATLKIKNRT 145
DB 94 SY-----CGPCPKMWICYNKNCYQFNFESKNWYEQASCMQASVSLIKYKSKEDQILKLV 149
QY 150 KARTHLIRWVGLSRQSNFVWKWEDGSVISENMFELDEGKGNMCA-YFNGKHAFTPC 208
DB 150 KS---YHMGGLIHPTNGSQWQEDGSILSPULLIIMQKG--DCALYASSFKGYIENG 203
QY 209 ENKHYLMCEKKA 219
DB 204 STPNYTIOMOR 214

RESULT 26
Q8MJHU PRELIMINARY; PRT; 216 AA.
AC Q8MJHU;

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DT 01-OCT-2002 (TREMBlrel. 22, Created)
DT 01-OCT-2002 (TREMBlrel. 22, Last sequence update)
DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE Natural killer cell lectin-like receptor.
GN POPY-NKG2D.
OS Pongo pygmaeus (Orangutan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pongo.
OX NCBI_Taxid=9600;
[1]
SEQUENCE FROM N.A.
RX MEDLINE=22072192; PubMed=12077248;
RA Gueltheln L.A., Flodin L.R., Adams E.U., Parham P.;
RT "NK Cell Receptors of the Orangutan (Pongo pygmaeus): A Pivotal
RT Species for Tracking the Coevolution of Killer Cell Ig-Like Receptors
RT with MHC-C";
RL J. Immunol. 169:220-229(2002).
DR EMBL: AF470404; AAM78504.1; -.
DR InterPro: IPR002353; Antifreeze-I.
DR Pfam: PF00059; Lectin_C.
DR PRINTS: PR00356; ANTI-FREZE-IT.
DR SMART: SM00034; CLECT; 1.
DR PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
KW Receptor; Lectin.
SQ SEQUENCE 216 AA; 25225 MW; 92E757724B836210 CRC64;

Query Match 17.6%; Score 222; DB 6; Length 216;
Best Local Similarity 29.3%; Pred. No. 1.9e-13;
Matches 56; Conservative 37; Mismatches 60; Indels 38; Gaps 9;

QY 38 LILC--VGVWVG--LVALGIVSWQRYLQDENENRTSTLOOLAKRFOYVVKOSLKG 92
DB 53 LFCCCFIATMGIRITVMTTISAVFLNSL-----FNQEV--QIPLTG 93
QY 93 TFKGKXCFCDTNRWRYGDSYCGYFRNLNLTWESKQYCTDNATLKIKNRT 149
DB 94 SY-----CGPCPKMWICYNKNCYQFNFESKNWYEQASCMQASVSLIKYKSKEDQILKLV 149
QY 150 KARTHLIRWVGLSRQSNFVWKWEDGSVISENMFELDEGKGNMCA-YFNGKHAFTPC 208
DB 150 KS---YHMGGLIHPTNGSQWQEDGSILSPULLIIMQKG--DCALYASSFKGYIENG 203
QY 209 ENKHYLMCEKKA 219
DB 204 STPNYTIOMOR 214

RESULT 27
Q54709 PRELIMINARY; PRT; 232 AA.
ID Q54709
AC Q54709;
DT 01-JUN-1998 (TREMBlrel. 06, Created)
DT 01-MAY-1999 (TREMBlrel. 10, Last sequence update)
DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE NKG2-D protein.
GN NKG2D OR D6H12S2489E.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_Taxid=10090;
[1]
SEQUENCE FROM N.A.
RX STRAIN=C57BL/6;
RA MEDLINE=9826354; PubMed=9600963;
RA Ho E.L., Heusel J.W., Brown K.G., Matsumoto K., Scalzo A.A.,
RA Yokoyama W.M.;
RT "Murine NKG2d and Cd94 are clustered within the natural killer complex
RT and are expressed independently in natural killer cells.";
RL Proc. Natl. Acad. Sci. U.S.A. 95:6320-6325(1998).
RV [2]
SQ SEQUENCE OF 14-232 FROM N.A.
PC STRAIN=C57BL/6;

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EX MEDLINE=98124458; PubMed=9464811;  
 RA Vance R.E., Tanemachi D.M., Hanke T., Raulat D.H.;  
 RT "Cloning of a mouse homolog of CD94 extends the family of C-type  
 lectins on murine natural killer cells.";  
 RL Eur. J. Immunol. 27:3236-3241(1997).  
 RN [13]  
 RC SEQUENCE FROM N.A.  
 RA STRAIN=C57BL/6J; TISSUE=Spleen;  
 RA Butcher S., Cottage A., Cook G.P.;  
 RT "Mouse natural killer cell receptors homologous to human CD94 and  
 NKG2-D.";  
 RL Submitted (DEC-1997) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AF054819; AAC24356.1; -;  
 DR EMBL; AF030313; AAC28245.1; -;  
 DR EMBL; AF039026; AAD02117.1; -;  
 DR MGD; MGI:1196250; D6H2S2489E.  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C; 1.  
 DR SMART; SM00034; CLECT\_1.  
 DR PROSITE; PSS0041; C\_TYPE\_LECTIN\_2; 1.  
 KM Receptor.  
 SQ SEQUENCE 232 AA; 26709 MW; 050536E8C3088A CRC64;

Query Match 17.2%; Score 217; DB 11; Length 232;  
 Best Local Similarity 32.9%; Pred. No. 6,3e-13;  
 Matches 51; Conservative 31; Mismatches 61; Indels 12; Gaps 5;

QY 72 TLQQLA--KEFCQYVVKQSLKCTFGKHKSPDITWRYRGSCYGFRRHNTLWESKQY 129  
 DB 83 TLWMLVIFETFPVLCNKEVPSRSREGYGPDPNNWICHRNVCYGFEEKYNOSQAS 142  
 QY 130 CTDMNATLIXIDRNIVEYIKARTHLIR--WVGLSRQKSNVYKMKEDGSVISNNFEEL 186  
 DB 143 CUSQNSGLIKTYKEKEDPLK----LVKSYHMGVLVOIRANGSVQWHDGSSLSYNQITLV 198  
 QY 187 EDGKGNMNA-YFHNGKMHPTFCENKHYLCCERKA 220  
 DB 199 EIKPG--SCAVYGSFKAYTEDCANINITYICMGR 231

RESULT 28

Q9MZ37 PRELIMINARY; PRT; 215 AA.  
 ID Q9MZ37;  
 AC Q9MZ37;  
 DT 01-OCT-2000 (TREMBLrel. 15, Created)  
 DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)  
 DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)  
 DE NK cell receptor D.  
 GN NKG2-D.  
 OS Pan troglodytes (Chimpanzee).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Pan.  
 OC NCBI\_TaxID=9598;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Khakoo S.L., Rajalingam R., Shun B.P., Weidenbach K., Flodin L.,  
 RA Muir D.G., Canavez P., Cooper S.L., Valiante N.M., Lander L.L.,  
 RA Parham P.;  
 RT "Rapid evolution of NK cell receptor systems demonstrated by  
 RT comparison of chimpanzees and humans.";  
 RL Submitted (AUG-2000) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AF259063; AAF86971.1; -;  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C; 1.  
 DR SMART; SM00034; CLECT\_1.  
 DR PROSITE; PSS0041; C\_TYPE\_LECTIN\_2; 1.  
 KM Receptor.  
 SQ SEQUENCE 216 AA; 25303 MW; 30DD0FF401D99BE1 CRC64;

Query Match 16.8%; Score 211.5; DB 6; Length 215;  
 Best Local Similarity 29.0%; Pred. No. 2e-12;  
 Matches 51; Conservative 35; Mismatches 57; Indels 33; Gaps 7;

QY 48 IVALGIVSYMGRNYLQDENENRTGITQLAKPCCYVVKQSLKCTFGKHKSPDITWR 107  
 DB 68 IIMVTTWSAVFLNSL-----FNGSV--QIDLTESY-----CGPCPKNMI 104  
 QY 108 YVGDSCYGFRRHNTLWESKQYCTDMNATLTKI---DNRNIVEYIKARTHLIRWVLSQ 164  
 DB 105 CYKNNVCYGFRRHNTLWESKQYCTDMNATLTKI---DNRNIVEYIKARTHLIRWVLSQ 160  
 QY 165 KSENVKMKEDGSVISNNFEELDGKGNMNA-YFHNGKMHPTFCENKHYLCCERK 219  
 DB 161 PTNGSVQWHDGSSLSYNQITLVIMQKG--DCALYASSFGYIENGSTPVTYICMGR 214

RESULT 29

Q9MZ6 PRELIMINARY; PRT; 185 AA.  
 ID Q9MZ6;  
 AC Q9MZ6;  
 DT 01-OCT-2000 (TREMBLrel. 15, Created)  
 DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)  
 DT 01-CON-2001 (TREMBLrel. 17, Last annotation update)  
 DE NKG2-D.  
 OS Macaca mulatta (Rhesus macaque).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;  
 OC NCBI\_TaxID=9544;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA MEDLINE=20322487; PubMed=10866118;  
 RA Laborte M.L., Levy D.B., Letvin N.L.;  
 RT "Characterization of rhesus monkey CD94/NKG2 family members and  
 RT identification of novel transmembrane-deleted forms of NKG2-A, B, C,  
 RT and D.";  
 RL Immunogenetics 51:496-499(2000).  
 DR EMBL; AF190944; AAF74540.1; -;  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C; 1.  
 DR SMART; SM00034; CLECT\_1.  
 DR PROSITE; PSS0041; C\_TYPE\_LECTIN\_2; 1.  
 KM Receptor.  
 SQ SEQUENCE 185 AA; 21585 MW; 7D2CB79EC062FE21 CRC64;

Query Match 16.5%; Score 208; DB 6; Length 185;  
 Best Local Similarity 32.8%; Pred. No. 3.6e-12;  
 Matches 41; Conservative 29; Mismatches 45; Indels 10; Gaps 4;

QY 99 GSPCTNRRYVYDSCYGFRRHNTLWESKQYCTDMNATLTKI---DNRNIVEYIKARTHL 155  
 DB 65 CGPCPKNW-CYKNNVCYGFRRHNTLWESKQYCTDMNATLTKI---DNRNIVEYIKARTHL 120  
 QY 156 IHWVLSRQKSNVYKMKEDGSVISNNFEELDGKGNMNA-YFHNGKMHPTFCENKHYL 214  
 DB 121 YHWGVLVHISTNGSVQWHDGSSLSYNQITLVIMQKG--DCALYASSFGYIENGSTPVTY 178  
 QY 215 MCERK 2:9  
 DB 179 ICMGR 183

RESULT 30

Q9GLP5 PRELIMINARY; PRT; 214 AA.  
 ID Q9GLP5;  
 AC Q9GLP5;  
 DT 01-MAR-2001 (TREMBLrel. 16, Created)  
 DT 01-MAR-2001 (TREMBLrel. 16, Last sequence update)  
 DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)  
 DE Sus scrofa (Pig).  
 OS Sus scrofa (Pig).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.  
 OC NCBI\_TaxID=9823;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 MEDLINE=21291702; PubMed=11398969;

RA Yim D., Jie H.B., Scitladiis J., Kim Y.S., Kim K.S., Rothchild M.F.,  
 RA Lanier L.L., Kim Y.B.,  
 RT "Molecular cloning and characterization of pig immunoreceptor DAP10  
 RT and NKGD.";  
 RL Immunogenetics 53:243-249(2001).  
 DR EMBL: AF285448; AAC28426.1, -  
 DR InterPro; IPR002353; AntifreezeII.  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C\_1.  
 DR PRINTS; PR00356; ANTIFREEZEII.  
 DR SMART; SM00034; CLECT; 1.  
 DR PROSITE; PS50041; C\_TYPE\_LLECTIN\_2; 1.  
 KM Receptor  
 SQ SEQUENCE 214 AA; 24772 MW; 22C0857BBE136362 CRC64;

Query Match 16.3%; Score 205; DB 6; Length 214;  
 Best Local Similarity 28.9%; Pred. No. 6, 4e-12;  
 Matches 55; Conservative 30; Mismatches 65; Indels 40; Gaps 6;

QY 24 PASSFWRMVALLILLCVGVVGLVALGIVSNQPNYLODENENRGTLOQLARFCQY 83  
 DB 48 ESEPFARSIAMGIRIVVM-----ITSGMILNLFNQ----- 83  
 QY 84 VVKSELKGTFRKHCSPCDINRYGDSYGFPRHNLTEESKOYCTDNATLTKIDNR 143  
 DB 84 -----EADSPLEKSYGCPKRWICYNKCYGFSNEXKTLQSQASCSQNSLTKIYSR 138  
 QY 144 NIVEYIKARTHLIR---WVGLSRQKSNVWMEGDSVISENMFELDEGKNMNCAYFHN 200  
 DB 139 EDQGFEEK---LVASYHMGVLVQPIFRSNQWSDGSLISFNQITWVMONG--SCAVY-- 190  
 QY 201 GKHAPTFCEZ 210  
 DB 191 GSSPKGYTEN 200

## RESULT 31

070215 PRELIMINARY; PRT; 215 AA.

ID 070215  
 AC 070215;  
 DT 01-AUG-1998 (TrEMBLrel. 07, Created)  
 DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE NKR-P2.  
 GN NKR-P2.  
 OS Rattus norvegicus (Rat).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=R344;  
 RX MEDLINE=98281903; PubMed=9620593;  
 RA Berg S.F., Disen E., Westgaard I.H., Fossum S.,  
 RT "Molecular characterization of rat NKR-P2, a lectin-like receptor  
 RT expressed by NK cells and resting T cells.";  
 RL Int. Immunol. 10:379-385(1998).  
 DR EMBL: AF009511; AAC40092.1, -  
 DR InterPro; IPR002353; AntifreezeII.  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C\_1.  
 DR PRINTS; PR00356; ANTIFREEZEII.  
 DR SMART; SM00034; CLECT; 1.  
 DR PROSITE; PS50041; C\_TYPE\_LLECTIN\_2; 1.  
 SQ SEQUENCE 215 AA; 24438 MW; B49C0364613031AF CRC64;

Query Match 16.2%; Score 204.5; DB 11; Length 215;  
 Best Local Similarity 30.6%; Pred. No. 9, 4e-12;  
 Matches 44; Conservative 29; Mismatches 56; Indels 15; Gaps 5;

QY 81 CQYVVKQSELKGTFRKHCSPCDINRYGDSYGFPRHNLTEESKOYCTDNATLTKI 140  
 DB 82 CKKEVSVSSREG-----YCGPCNDMI GHRNRCYQIFRNNKAMNQSQASCSLSONSLTKI 136

QY 141 DNRNIVEYIKARTHLIR---WVGLSRQKSNVWMEGDSVISENMFELDEGKNMNCAYFHN 196  
 DB 137 YSKEDQFLK---LVKSYHMGVLVQSPANSQWQWEDSSLSFNLTLTKVPSG--TCAY 190  
 QY 197 YFHNGKHAPTFCEZKHYLMCKERA 220  
 DB 191 YGSSFRAYTEDCSNPNTYICMKRA 214

## RESULT 32

09SP06 PRELIMINARY; PRT; 277 AA.

ID 09SP06  
 AC 09SP06;  
 DT 01-JUN-2002 (TrEMBLrel. 21, Created)  
 DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)  
 DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)  
 DE NK receptor Ly49.  
 OS Bos taurus (Bovine).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;  
 OC Bovidae; Bovinae; Bos.  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=21858859; PubMed=11870625;  
 RA McQueen K.L., Wilhelm B.T., Harden K.D., Mager D.L.,  
 RT "Evolution of NK receptors: a single Ly49 and multiple KIR genes in  
 RT the cow.";  
 RL Eur. J. Immunol. 32:810-817(2002).  
 DR EMBL: AY075101; AA62800.1, -  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C\_1.  
 DR SMART; SM00034; CLECT; 1.  
 DR PROSITE; PS50041; C\_TYPE\_LLECTIN\_2; 1.  
 KM Receptor.  
 SQ SEQUENCE 277 AA; 32383 MW; 306C295D5CA2715E CRC64;

Query Match 15.9%; Score 200.5; DB 6; Length 277;  
 Best Local Similarity 24.4%; Pred. No. 3, 1e-11;  
 Matches 58; Conservative 38; Mismatches 91; Indels 51; Gaps 7;

QY 26 SSFWRMVALLILLCVGVVGLVALGIVSNQPNYLODENENRGTLOQLARFCQY 62  
 DB 40 SSVPWHGIAVTGLILDLIMTLITVIGIKISQYLLEKHOQEFALMN.SQKVCVQVQNDNYL 99  
 QY 63 Q-----DENENRGTLOQL-----ARFGQYVVKQSEL---KGTFRKHCSPC 102  
 DB 100 NKQLLTKTSBCDRNLNETLOQIKGLSDLVFTKKGCTHKKSSSLPNTGEER----- 152  
 QY 103 DITWRYYGDSYGFPRHNLTEESKOYCTDNATLTKIDNRNIVEYIKART-HLIRVGL 161  
 DB 153 EYSWQWGVNVCYFPAETLNMMGNGQICQSHNSCLIKIDDAEINLJGQTCQNYVWIGL 212  
 QY 162 SHQKSEVWKMDGVSISNMFELEDEGKNMNCAYFHNKQHPFCEZKHYLMCKERK 219  
 DB 213 ASKSKENRWKMDINGPSRLHLITMDHRGKDECAFILSTRITLIDCYTYNCICERK 270

## RESULT 33

08KH99 PRELIMINARY; PRT; 179 AA.

ID 08KH99  
 AC 08KH99;  
 DT 01-OCT-2002 (TrEMBLrel. 22, Created)  
 DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE Natural killer cell receptor.  
 GN POPY-CD94.  
 OS Pongo pygmaeus (Orangutan).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Pongo.  
 RN [1]  
 NCBI\_Taxid=9600;

SEQUENCE FROM N.A.  
 MEDLINE=22072192; PubMed=12077248;  
 RA Guethlein L.A., Flodin L.R., Adams E.J., Parham P.;  
 RT "NK Cell Receptors of the Orangutan (*Pongo pygmaeus*): A Pivotal  
 Species for Tracking the Coevolution of Killer Cell Ig-like Receptors  
 with MHC-C";  
 RL J. Immunol. 169:220-229(2002).  
 DR EMBL: AF470380; AAM78480.1; -  
 DR EMBL: AF470385; AAM78485.1; -  
 DR InterPro: IPR006209; EGF-like.  
 DR InterPro: IPR001304; Lectin\_C.  
 DR Pfam: PF00059; Lectin\_C/1.  
 DR SMART: SM00034; CLECT; 1.  
 DR PROSITE: PS50041; C TYPE LECTIN\_2; -  
 DR PROSITE: PS00022; EGF\_1; 1.  
 KW Receptor

SEQUENCE 179 AA; 20520 MW; 6744895FBD95CFA CRC64;  
 Query Match 15.5%; Score 196; DB 6; Length 179;  
 Best Local Similarity 23.1%; Pred. No. 5e-11;  
 Matches 46; Conservative 37; Mismatches 84; Indels 32; Gaps 5;

QY 26 SSFWRWVALLILLCGMVGVGLVGLWSVMQKNYQDENENFTGLQCLARR-FCQYV 84  
 DB 6 TTTMWLISG-----TLGIICSL-----TATIGILKNSFTKLS 39  
 QY 85 VKQSLKSG---TFKHKCSPCDIMWRYGDSYGFPRHNLTWBESKQYCTDMATLTKI 140  
 DB 40 IEPFTGPPDLEOKDSCQCKWVGYRCNCFPTISEQRTWESHLLCASCKSLQL 99  
 QY 141 DNENIVYIKRFTLIRWVGLSRQKSNVWKMEDGYSISENMFLELDGKNMCAVFNH 200  
 DB 100 QNDELIDPMSS-SQGFYWGHSYSEBHTAMLENGSALSQYLPFLPTFPKNCIATNP 158  
 QY 201 GKCHPTCEKNHYLMCEK 219  
 DB 159 GNALDESCDKNRYTCQK 177

RESULT 34  
 035778 PRELIMINARY; PRT; 179 AA.  
 ID 035778; PRT; 179 AA.  
 AC 035778;  
 DT 01-JAN-1998 (TrEMBLrel. 05, Created)  
 DT 01-JAN-1998 (TrEMBLrel. 05, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE CD94.  
 GN CD94.  
 OS Rattus norvegicus (Rat).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
 OX NCBI\_Taxid=10116;  
 RN [1]  
 RP SOURCE FROM N.A.  
 RC STRAIN=P344;  
 RX MEDLINE=97439492; PubMed=9295048;  
 RA Disson B., Berg S.F., Westgaard I.H., Fossum S.;  
 RT "Molecular characterization of a gene in the rat homologous to human  
 RT CD94";  
 RL Eur. J. Immunol. 27:2080-2086(1997).  
 DR EMBL: AF009133; AAC10220.1; -  
 DR InterPro: IPR006209; EGF-like.  
 DR InterPro: IPR001304; Lectin\_C.  
 DR Pfam: PF00059; Lectin\_C/1.  
 DR SMART: SM00034; CLECT; 1.  
 DR PROSITE: PS50041; C TYPE LECTIN\_2; 1.  
 DR PROSITE: PS00022; EGF\_1; 1.  
 GN PROSITE: PS00022; EGF\_1; 1.  
 SQ SEQUENCE 179 AA; 20791 MW; 11E8A55C670EB84C CRC64;

Query Match 15.5%; Score 196; DB 11; Length 179;  
 Best Local Similarity 23.9%; Pred. No. 5e-11;  
 Matches 49; Conservative 45; Mismatches 71; Indels 40; Gaps 8;

QY 30 WRVVALILILLCGMVGVGLVGLWSVMQKNYQDENENFTGLQCLARR-FCQYV 84  
 DB 9 WRIMSMFFGIKCLFLVAL-----GLVKN-----SFTQNT-----QSTPSTP 48  
 QY 90 LKGFEXHKCSPCDIMWRYGDSYGFPRHNLTWBESKQYCTDMATLTKINDNIVEYI 149  
 DB 49 IVEFQKSKCCACLEKRTIGHQCCYFISKERKWSGRFCASQNSLLQDTNELSLFM 108  
 QY 150 KARTHLIRWVGLSRQKSNVWKMEDGYSISENMF-----ETLEDGKNYNC-AVFNHGMH 204  
 DB 109 SS-SQAFWVGIHYNERSAMLEWEDGFPSPKDLFPSPKRPD-----HCTGISISKEIS 162  
 QY 205 PTCEKNHYLMCEKKAQMTVDQL 229  
 DB 163 SESCENNRFRCK-----QLP 178

RESULT 35  
 08CUC7 PRELIMINARY; PRT; 226 AA.  
 ID 08CUC7;  
 AC 08CUC7;  
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE Putative NK receptor.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 OX NCBI\_Taxid=10090;  
 RN [1]  
 RP SOURCE FROM N.A.  
 RC STRAIN=C57BL/6; TISSUE=Spleen;  
 RA Koike J., Sato H., Shimizu B., Taniguchi M.;  
 RT "Identification and Characterization of a Novel NK Receptor";  
 RL Submitted (SEP-2000) to the EMBL/GenBank/DBD databases.  
 DR EMBL: AF306663; AAN31172.1; -  
 KW Receptor.

SEQUENCE 226 AA; 26265 MW; FE1E2SC0A80B2FD CRC64;  
 Query Match 15.5%; Score 195.5; DB 11; Length 226;  
 Best Local Similarity 23.8%; Pred. No. 7.4e-11;  
 Matches 45; Conservative 39; Mismatches 76; Indels 29; Gaps 5;

QY 30 WRVVALILILLCGMVGVGLVGLWSVMQKNYQDENENFTGLQCLARR-FCQYV 84  
 DB 67 WRLLSVLQAMC-----LLMVAVMVMTFTTKSSSSSSSTIQ----- 106  
 QY 90 LKGFEXHKCSPCDIMWRYGDSYGFPRHNLTWBESKQYCTDMATLTKINDNIVEYI 149  
 DB 107 EGIH-----HCPENWVWFRSCYFISKEELIWRDSQACSLNSSLIRM-NKEEMFF 159  
 QY 150 KARTHLIRWVGLSRQKSNVWKMEDGYSISENMFLELDGKNMCAVFNHGMHPTFCE 209  
 DB 160 SLKSEF--VWGVYMETRQWLMEDHSVLPGLFSLILANMKNPCASYSKRAYWENCA 217  
 QY 210 NKHYLMCEK 218  
 DB 218 NKLYTYICKK 226

RESULT 36  
 08MEY8 PRELIMINARY; PRT; 179 AA.  
 ID 08MEY8;  
 AC 08MEY8;  
 DT 01-OCT-2002 (TrEMBLrel. 22, Created)  
 DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE Natural killer cell receptor.  
 GN Pongopygmaeus (Orangutan).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Pongo.  
 OX NCBI\_Taxid=9600;

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RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22072192; PubMed=12077248;
RA Guelstein L.A., Flodin L.R., Adams E.J., Parham P.;
RT "NK Cell Receptors of the Orangutan (Pongo pygmaeus): A Pivotal
RT Species for Tracking the Coevolution of Killer Cell Ig-Like Receptors
RT with MHC-C";
RL J. Immunol. 169:220-229 (2002).
DR EMBL; AF470381; AAM78481.1; -.
DR EMBL; AF470382; AAM78482.1; -.
DR InterPro; IPR006209; EGF like.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PR00059; Lectin_C; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00041; C TYPE LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 1.
KW Receptor.
SQ SEQUENCE 179 AA; 20550 MW; 6752CB8F182CPD73 CRC64;

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Query Match 15.5%; Score 195; DB 6; Length 179;
Best Local Similarity 23.2%; Pred. No. 6.3e-11;
Matches 46; Conservative 37; Mismatches 85; Indels 30; Gaps 5;

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QY 26 SFFWRVVALILILICVGVVGLVALGIWSVQWQNYLODENENRTGLQLAKRQYV 85
DB 6 TLLWMLISG-TLGLICLSL---WATLGI-----LTKNSFTKLSI 40
QY 86 KQSELKNG---TFKHKCSPCDTWRYGSDCYGFPRHNLWESKQYCTDMATLTKID 141
DB 41 EPAFTPGPDIELQKSDSCSCQEKWVGRCNCFISSQKTYWNSRHLCASQKSLDQL 100
QY 142 NKNIVYIKARTHLIRWVGLSRQKSNVWVKWEDGSVISNNFEFLDCKGNMCAVFN 201
DB 101 NTDELDEWSS-SQGFYWIGLSYSEHETAWLWENGSLQYLPFLFTFNPRKCIAYNPN 159
QY 202 KKHPTFCENKHYLMCKER 219
DB 160 NALDESCEDKRNRYICKQ 177

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RESULT 37
Q8MJ14 PRELIMINARY; PRT; 179 AA.
AC Q8MJ14;
DT 01-OCT-2002 (Tremblrel. 22. Created)
DT 01-OCT-2002 (Tremblrel. 22. Last sequence update)
DT 01-MAR-2003 (Tremblrel. 23. Last annotation update)
DE Natural killer cell receptor.
GN POPY-CD94.
OS Pongo pygmaeus (Orangutan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Pongo.
OX NCBI_TaxID=9600;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22072192; PubMed=12077248;
RA Guelstein L.A., Flodin L.R., Adams E.J., Parham P.;
RT "NK Cell Receptors of the Orangutan (Pongo pygmaeus): A Pivotal
RT Species for Tracking the Coevolution of Killer Cell Ig-Like Receptors
RT with MHC-C";
RL J. Immunol. 169:220-229 (2002).
DR EMBL; AF470383; AAM78483.1; -.
DR InterPro; IPR006209; EGF like.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PR00059; Lectin_C; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00041; C TYPE LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 1.
KW Receptor.
SQ SEQUENCE 179 AA; 20536 MW; 674489B5EC6F8780 CRC64;

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Query Match 15.4%; Score 194; DB 6; Length 179;
Best Local Similarity 23.1%; Pred. No. 7.9e-11;

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Matches 46; Conservative 37; Mismatches 84; Indels 32; Gaps 5;
QY 26 SFFWRVVALILILICVGVVGLVALGIWSVQWQNYLODENENRTGLQLAKR-FCQYV 84
DB 6 TLLWMLISG-----TLGLICLSL-----TATGILTKNSFTKLS 39
QY 85 VQSELKNG---TFKHKCSPCDTWRYGSDCYGFPRHNLWESKQYCTDMATLTKI 140
DB 40 EPAFTPGPDIELQKSDSCSCQEKWVGRCNCFISSQKTYWNSRHLCASQKSLDQL 99
QY 141 ENKNIVYIKARTHLIRWVGLSRQKSNVWVKWEDGSVISNNFEFLDCKGNMCAVFN 200
DB 100 NTDELDEWSS-SQGFYWIGLSYSEHETAWLWENGSLQYLPFLFTFNPRKCIAYNPN 158
QY 201 KKHPTFCENKHYLMCKER 219
DB 159 GNALDESCEDKRNRYICKQ 177

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RESULT 38
Q8MJ13 PRELIMINARY; PRT; 179 AA.
AC Q8MJ13;
DT 01-OCT-2002 (Tremblrel. 22. Created)
DT 01-OCT-2002 (Tremblrel. 22. Last sequence update)
DT 01-MAR-2003 (Tremblrel. 23. Last annotation update)
DE Natural killer cell receptor.
GN POPY-CD94.
OS Pongo pygmaeus (Orangutan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Pongo.
OX NCBI_TaxID=9600;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22072192; PubMed=12077248;
RA Guelstein L.A., Flodin L.R., Adams E.J., Parham P.;
RT "NK Cell Receptors of the Orangutan (Pongo pygmaeus): A Pivotal
RT Species for Tracking the Coevolution of Killer Cell Ig-Like Receptors
RT with MHC-C";
RL J. Immunol. 169:220-229 (2002).
DR EMBL; AF470384; AAM78484.1; -.
DR InterPro; IPR006209; EGF like.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PR00059; Lectin_C; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00041; C TYPE LECTIN_2; 1.
DR PROSITE; PS00022; EGF_1; 1.
KW Receptor.
SQ SEQUENCE 179 AA; 20566 MW; 6752CB8F0F9A2609 CRC64;

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Query Match 15.3%; Score 193; DB 6; Length 179;
Best Local Similarity 23.2%; Pred. No. 9.8e-11;
Matches 46; Conservative 37; Mismatches 85; Indels 30; Gaps 5;
QY 26 SFFWRVVALILILICVGVVGLVALGIWSVQWQNYLODENENRTGLQLAKRQYV 85
DB 6 TLLWMLISG-TLGLICLSL---WATLGI-----LTKNSFTKLSI 40
QY 86 KQSELKNG---TFKHKCSPCDTWRYGSDCYGFPRHNLWESKQYCTDMATLTKID 141
DB 41 EPAFTPGPDIELQKSDSCSCQEKWVGRCNCFISSQKTYWNSRHLCASQKSLDQL 100
QY 142 NKNIVYIKARTHLIRWVGLSRQKSNVWVKWEDGSVISNNFEFLDCKGNMCAVFN 201
DB 101 NTDELDEWSS-SQGFYWIGLSYSEHETAWLWENGSLQYLPFLFTFNPRKCIAYNPN 159
QY 202 KKHPTFCENKHYLMCKER 219
DB 160 NALDESCEDKRNRYICKQ 177

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RESULT 39
Q8KAF1

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QY 128 OXCDNATLTKIDNNIVEYI-KANTH:IRWVGLSRQKSNRWKMGDSVTSNNFEL 186  
 Db 183 KVCQAKNAHLVINSREEDNFWQKYLGSAYTWKGLSDPEG--AMKWDGTDYATG-FQW 239  
 QY 187 EDGK-----GNNCAVPH-NGKMPFCENKHYLMCERKAGMT 223  
 Db 240 KFGQPDWQGHGLGGGECDAHFHPDGRMNDVQCQRPYHWCEAGLGQT 287

## RESULT 42

Q62983 PRELIMINARY; PRT; 223 AA.  
 AC Q62983;  
 DT 01-NOV-1996 (TREMBlrel. 01, Created)  
 DT 01-NOV-1996 (TREMBlrel. 01, Last sequence update)  
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)  
 DE NKR-PIB.  
 GN NKR-PIB.  
 OS Rattus norvegicus (Rat).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
 CX NCBI\_TaxID=10116;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=f344;  
 RA Dissen E.; Ryan J.C.; Seaman W.E.; Fossum S.;  
 RT "rat NKR-PIB CDNA."  
 RL J. Exp. Med. 0:0-0(1996).  
 DR EMBL; U56936; AAB01986.1; -.  
 DR HSSP; P22897; IEGG.  
 DR InterPro; IPR002353; Antifreezeit.  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C; 1.  
 DR PRINTS; PR00356; ANTIFREEZEIT.  
 DR SMART; SM0034; CLECT; 1.  
 DR PROSITE; PSS0041; C TYPE LECTIN 2; 1.  
 SQ SEQUENCE 223 AA; 24800 MW; B6254AD01C580086 CRC64;

Query Match 15.1%; Score 191; DB 11; Length 223;  
 Best Local Similarity 27.4%; Pred. No. 2e-10;  
 Matches 55; Conservative 39; Mismatches 73; Indels 34; Gaps 7;

QY 30 WRWALLT---LILGVWVGVVALGWSVQGNITQ---DENERTTLOQLARFC 81  
 Db 36 WHHLALKGACILILVSLVIGLV-VLTLLQKPIQNSPADYQERKRTITVPAK--- 91  
 QY 82 QYVVKOSELKGTEKKGKSPCDTNWRYGDSYGFPHNLTEFSKQYCTDMWATLTKID 141  
 Db 92 -----LK-----CPDWHSLQDKCPHVQSTITWGLADCGKATLLLVQ 133  
 QY 142 NNNIVEYIKARTHLT---RWGGLSRQKSNRWKMGDSV-SENMFELDGKNNCAVYF 198  
 Db 134 DEELAFELNLTERRIISFWIGSYTLSDKWKWINGSITNSALNITGTERD-SCASV 192  
 QY 199 HNGKMPFCENKHYLMCERK 219  
 Db 193 SQDKVLSBSCDSDNWTCKE 213

## RESULT 43

Q81UN9 PRELIMINARY; PRT; 316 AA.  
 AC Q81UN9;  
 DT 01-MAR-2003 (TREMBlrel. 23, Created)  
 DT 01-MAR-2003 (TREMBlrel. 23, Last sequence update)  
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)  
 DE Similar to macrophage lectin 2 (Calcium dependent).  
 OS Homo sapiens (Human).  
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.  
 CX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.

RC TISSUE=Brain;  
 RA Strausberg R.;  
 RL Submitted (NOV-2002) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; BC003901.1; AAH39011.1; -.  
 KW Lectin.  
 SQ SEQUENCE 316 AA; 35446 MW; DBB7193E2E1F58AF CRC64;

Query Match 15.1%; Score 190; DB 4; Length 316;  
 Best Local Similarity 29.1%; Pred. No. 3.7e-10;  
 Matches 48; Conservative 30; Mismatches 63; Indels 24; Gaps 8;

QY 73 LQQLAKRCQYV--KQSELKGTGKHKSPCDTNWRYGDSYGFPHNLTEFSKQY 130  
 Db 157 VQDKKLTQVATLNNASTEGT-----C-CPVWVSHQDSYVFSHSGMSWAEAKYC 209  
 QY 131 TDNATLTKIDNNIVEYI-KARTHLIRWVGLSRQKSNRWKMGDSVTSNNFELDG 189  
 Db 210 QLNKAHLVINSREEDNFWQKYLGSAYTWKGLSDPEG--AMKWDGTDYATG-FQW 266  
 QY 190 K-----GNNCAVPH-NGKMPFCENKHYLMCERKAGMT 223  
 Db 267 QPDWQGHGLGGGECDAHFHPDGRMNDVQCQRPYHWCEAGLGQT 311

## RESULT 44

O70156 PRELIMINARY; PRT; 364 AA.  
 AC O70156;  
 DT 01-AUG-1998 (TREMBlrel. 07, Created)  
 DT 01-AUG-1998 (TREMBlrel. 07, Last sequence update)  
 DT 01-OCT-2002 (TREMBlrel. 22, Last annotation update)  
 DE Endothelial receptor for oxidized low-density lipoprotein.  
 GN LOX-1.  
 OS Rattus norvegicus (Rat).  
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
 CX NCBI\_TaxID=10116;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=SHR-SP; TISSUE=Kidney;  
 RA MEDLINE=98161826; PubMed=9494115;  
 RX Nagase M., Hirose S., Fujita T.;  
 RT "Unique repetitive sequence and unexpected regulation of expression of  
 rat endothelial receptor for oxidized low-density lipoprotein (LOX-1)."  
 RL Biochem. J. 330:1417-1422(1998).  
 RN [2]

RP SEQUENCE FROM N.A.  
 RC STRAIN=SPRAGUE-DAWLEY; TISSUE=Liver;  
 RX MEDLINE=99057940; PubMed=9837956;  
 RA Nagase M., Abe J., Takahashi K., Ando J., Hirose S., Fujita T.;  
 RT "Genomic organization and regulation of expression of the lectin-like  
 RT oxidized low-density lipoprotein receptor (LOX-1) gene."  
 RL J. Biol. Chem. 273:33702-33707(1998).  
 DR EMBL; AB005900; BAA25785.1; -.  
 DR EMBL; AB018104; BAA35123.1; -.  
 DR EMBL; AB018097; BAA35123.1; JOINED.  
 DR EMBL; AB018098; BAA35123.1; JOINED.  
 DR EMBL; AB018099; BAA35123.1; JOINED.  
 DR EMBL; AB018100; BAA35123.1; JOINED.  
 DR EMBL; AB018101; BAA35123.1; JOINED.  
 DR EMBL; AB018102; BAA35123.1; JOINED.  
 DR EMBL; AB018103; BAA35123.1; JOINED.  
 DR InterPro; IPR001304; Lectin\_C.  
 DR Pfam; PF00059; Lectin\_C; 1.  
 DR SMART; SM0034; CLECT; 1.  
 DR PROSITE; PSS0041; C TYPE LECTIN 2; 1.  
 KW Lectin; Lipoprotein\_Receptor.  
 SQ SEQUENCE 364 AA; 41890 MW; 0AD2839C07206E09 CRC64;

Query Match 15.1%; Score 190; DB 11; Length 364;  
 Best Local Similarity 26.1%; Pred. No. 4.4e-10;  
 Matches 48; Conservative 36; Mismatches 60; Indels 40; Gaps 8;

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QY 54 WSMQRYVLODE-----NENRTGLQOLARFCQYVVKOSLKGTFKHKCSPCDTWRY 109
DB 202 WFLNKSXKQOEHLLOQNOQLGALQRAA-----NSSGCPQDWLWH 242
QY 110 GDSCTGFPHNTTWBSKQYCTDNANTLIKI---DNENVEYKARHLIR--WVGLSRQ 164
DB 243 KENCY-LPHGPFNWKSRNCLSDAOLQISTDTDLNFV--LQATSHSTSPFWGLHRX 299
QY 165 KSNEVWKEDEGVSLENMFEELEDGKGMNCA--NCAVFNHGRKHPTFCNKATLMGER 218
DB 300 NPHNFWLHNSGSPLS---PQFFRTGVSLOWYSSGTCAVIGGVFAENCILITVAFSIQK 356
QY 219 KAGM 222
DB 357 KANL 360

RESULT 45
Q9BDH2 PRELIMINARY; PRT; 285 AA.
AC Q9BDH2;
DT 01-JUN-2001 (Tremblrel. 17, Created)
DT 01-JUN-2001 (Tremblrel. 17, Last sequence update)
DT 01-MAR-2002 (Tremblrel. 20, Last annotation update)
DE Killer cell lectin-like receptor A-1.
GN KLR-1.
OS Papio hamadryas (Hamadryas baboon).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
OC Cercopithecinae; Papio.
OX NCBI_TaxID=9557;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Lymphocytes;
RX MEDLINE=21261853; PubMed=11369209;
RA Mager D.L., Moqseen K.T., Wee V., Freeman J.D.;
RT "Evolution of natural killer receptors: co-existence of functional
RT Ly49 and KIR genes in baboon.";
RL Curr. Biol. 11:626-630(2001).
DR EMBL; AY028399; AAK26161.1; -.
DR HSSP; P05451; IODD.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
KW Lectin; Receptor.
SQ SEQUENCE 285 AA; 33459 MW; 0C8FDA762B1488FE CAC64;

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Query Match 15.0%; Score 189.5; DB 6; Length 285;
Best Local Similarity 23.5%; Pred. No. 3.7e-10;
Matches 55; Conservative 41; Mismatches 87; Indels 51; Gaps 7;

QY 30 MRWALLILILICVQ--WVGLVAGISVMQRYVLODE-----NEN----- 68
DB 44 WRLIAVITIGIHLIVIVLVTKIQCVCERKEHQDILNRSEKIMONDNLKEQL 103
QY 69 -----RTGTLQO-----LAKRFC-----QYVVKOSLKGTFKHKCSPCDTW 106
DB 104 TNKTLIKYDILKKDFFLQKELDSLMLKSRCHRENIYKTLQNTGKFS-----EDHW 156
QY 107 RYVGDSCYGFPRHLTWBSKQYCTDNANTLIKI--DNENVEYKARHLIR--WVGLSRQ 165
DB 157 SCCGNCYCFMQCKDKGCKQCTQCHQRSSLLKIDDELAFISOIYENNYWTGLSYDK 216
QY 166 SNEVWKEDEGVSLENMFEELEDGKGMNCAVFNHGRKHPTFCNKATLMGER 219
DB 217 RESKWKIWDNGTSPGINSITMRSSSGRGEGAFILTSYATITDLCIKTNCICEKR 270

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RESULT 46
Q8K3G1 PRELIMINARY; PRT; 280 AA.
ID Q8K3G1

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AC Q8K3G1;
DT 01-OCT-2002 (Tremblrel. 22, Created)
DT 01-OCT-2002 (Tremblrel. 22, Last sequence update)
DT 01-MAR-2003 (Tremblrel. 23, Last annotation update)
DE Ly49 inhibitory receptor 2.
GN Ly4912.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=PVG;
RX MEDLINE=22110099; PubMed=12115624;
RA Naper C., Hayashi S., Joly E., Butcher G.W., Rolstad B., Vaage J.T.,
RA Ryan J.C.;
RT "Ly4912 is an inhibitory rat natural killer cell receptor for an MHC
RT class Ia molecule (RT1-A1c).";
RL Eur. J. Immunol. 32:2031-2036(2002).
DR EMBL; AY115572; AAM56042.1; -.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; Lectin_C.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
KW Receptor.
SQ SEQUENCE 280 AA; 32671 MW; 474B3B84A96AE021 CRC64;

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Query Match 14.9%; Score 188.5; DB 1; Length 280;
Best Local Similarity 23.9%; Pred. No. 4.5e-10;
Matches 54; Conservative 45; Mismatches 90; Indels 37; Gaps 7;

QY 26 SSWFWALLILILICVQWVGLVAGISVMQRYVLODE-----NEN----- 67
DB 39 SSVWKLIVIALGICVLLV--TVAVLVNCLQYNHTEHLEQTONSQHNCTVENDIKL 97
QY 68 -----NRTGLQOLAKRFQYVVKOSLKGTFKHKCSPCDTWRYVGDSCYQ 115
DB 98 KEEMLRNMSVSESTRYNALLDLINRDEQKRWYNTKTIVIAAQHOGCCEWIMLCIGIKCY 157
QY 116 FFRNHLTWBSKQYCTDNANTLIKIDNRINVEYIKATHLIR--WVGLSRQSNVYWK 172
DB 158 FIDKRTWHKCIQCTQCVYSLSFKIHDKELKFL--ODHITISDYWIGLSYNNKKEMSW 215
QY 173 EDGVSLENMFEELEDGKGMNCAVFNHGRKHPTFCNKATLMGER 218
DB 216 IDMTNLCDLVAMLSLHKE--NCKYFSMTGSHDDCGKRLCTCEK 260

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RESULT 47
Q54707 PRELIMINARY; PRT; 179 AA.
ID Q54707
AC Q54707;
DT 01-JUN-1998 (Tremblrel. 06, Created)
DT 01-JUN-1998 (Tremblrel. 06, Last sequence update)
DT 01-MAR-2003 (Tremblrel. 23, Last annotation update)
DE Killer cell lectin-like receptor, subfamily D, member 1 (CD94).
GN KIRD1 OR CD94.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J;
RA Vance R.E., Tanemachi C.M., Hanke T., Raullet D.H.;
RL Eur. J. Immunol. 27:0-0(1997).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J;
RA Heusel J.W., Ho E.L., Brown M.G., Matsumoto K., Yokoyama W.M.;
RT "Murine CD94.";
RL Proc. Natl. Acad. Sci. U.S.A. 0:0-0(1998).
RN [3]

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